# A hook selectivity study for Atlantic mackerel (*Scomber scombrus* L.) caught in St. Georges Bay, Nova Scotia, in October 2005

R. Heighton and F. Grégoire

Department of Fisheries and Oceans
Sciences Branch
Maurice Lamontagne Institute
P.O. Box 1000, 850 Route de la Mer
Mont-Joli (Québec)
G5H 3Z4

2006

**Canadian Industry Report of Fisheries and Aquatic Sciences 278**

Pêches et Océans Fisheries and Oceans

Canada

**Canadian Industry Report of Fisheries and Aquatic Sciences**

Industry reports contain the results of research and development useful to industry for either immediate or future application. They are directed primarily toward individuals in the primary and secondary sectors of the fishing and marine industries. No restriction is placed on subject matter, and the series reflects the broad interests and policies of the Department of Fisheries and Oceans, namely, fisheries and aquatic sciences.

Industry reports may be cited as full publications. The correct citation appears above the abstract of each report. Each report is indexed in the data base *Aquatic Sciences and Fisheries Abstracts*.

Numbers 1-91 in this series were issued as Project Reports of the Industrial Development Branch, Technical Reports of the Industrial Development Branch, and Technical Reports of the Fisherman's Service Branch. Numbers 92-110 were issued as Department of Fisheries and Environment, Fisheries and Marine Service Industry Reports. The current series name was changed with report number 111.

Industry reports are produced regionally but are numbered nationally. Requests for individual reports will be filled by the issuing establishment listed on the front cover and title page. Out-of-stock reports will be supplied for a fee by commercial agents.

**Rapport canadien à l'industrie sur les sciences halieutiques et aquatiques**

Les rapports à l'industrie contiennent les résultats des activités de recherche et de développement qui peuvent être utiles à l'industrie pour des applications immédiates ou futures. Ils sont surtout destinés aux membres des secteurs primaire et secondaire de l'industrie des pêches et de la mer. Il n'y a aucune restriction quant au sujet; de fait, la série reflète la vaste gamme des intérêts et des politiques du ministère des Pêches et des Océans, c'est-à-dire les sciences halieutiques et aquatiques.

Les rapports à l'industrie peuvent être cités comme des publications intégrales. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports à l'industrie sont indexés dans la base de données *Aquatic Sciences and Fisheries Abstracts*.

Les numéros 1 à 91 de cette série ont été publiés à titre de rapports sur les travaux de la Direction du développement industriel, de rapports techniques de la Direction du développement industriel, et de rapports techniques de la Direction des services aux pêcheurs. Les numéros 92 à 110 sont parus à titre de rapports à l'industrie du Service des pêches et de la mer, ministère des Pêches et de l'Environnement. Le nom actuel de la série a été établi lors de la parution du numéro 111.

Les rapports à l'industrie sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement d'origine dont le nom figure sur la couverture et la page du titre. Les rapports épuisés seront fournis contre rétribution par des agents commerciaux.

2007-03900/

i

Canadian Industry Report of

Fisheries and Aquatic Sciences 278

2006

# A HOOK SELECTIVITY STUDY FOR ATLANTIC MACKEREL (*Scomber scombrus* L.) CAUGHT IN ST. GEORGES BAY, NOVA SCOTIA, IN OCTOBER 2005

Ronald Heighton[1] and François Grégoire

Department of Fisheries and Oceans
Sciences Branch
Maurice Lamontagne Institute
P.O. Box 1000, 850 Route de la Mer
Mont-Joli (Québec)
G5H 3Z4

---

[1] President, Northumberland Fishermen's Association, R.R. #4, 44 River John Rd., River John, Pictou, NS, B0K 1N0

© Her Majesty the Queen in Right of Canada 2006
Cat. No. Fs 97-14/278E ISSN 0706-3694

This publication should be cited as follows:

Heighton, R., and F. Grégoire. 2006. A hook selectivity study for Atlantic mackerel (*Scomber scombrus* L.) caught in St. Georges Bay, Nova Scotia, in October 2005. Can. Ind. Rep. Fish. Aquat. Sci. 278: vii + 50 p.

## TABLE OF CONTENTS

LIST OF TABLES ..... iv

LIST OF FIGURES ..... v

LIST OF APPENDICES ..... vi

ABSTRACT / RÉSUMÉ ..... vii

1.0 INTRODUCTION ..... 1

2.0 MATERIALS AND METHODS ..... 1

3.0 RESULTS ..... 2

3.1 Total catches per fishing trip ..... 2

3.2 Catch description ..... 3

3.2.1 Fork length and total weight ..... 3
3.2.2 Gonad weight, gonadosomatic index, and condition factor ..... 3
3.2.3 Age, maturity, and sex ratio ..... 4

3.3 Median lengths ..... 4

3.4 Length frequency distribution ..... 5

4.0 CONCLUSION ..... 5

5.0 ACKNOWLEDGEMENTS ..... 6

6.0 REFERENCES ..... 6

## LIST OF TABLES

Table 1. Description of fishing and sampling activities during the hook selectivity study for Atlantic mackerel ..... 7

Table 2. Descriptive statistics of the biological characteristics of Atlantic mackerel sampled during the hook selectivity study ..... 7

Table 3. Descriptive statistics calculated per fishing trip and per hook size for the biological characteristics of Atlantic mackerel sampled during the hook selectivity study ..... 8

Table 4. Descriptive statistics calculated per fishing trip for the biological characteristics of Atlantic mackerel sampled during the hook selectivity study ..... 9

Table 5. Descriptive statistics calculated per hook size for the biological characteristics of Atlantic mackerel sampled during the hook selectivity study ..... 10

Table 6. Relative frequency distribution (%) of fish age per fishing trip and per hook size ..... 11

Table 7. Relative frequency distribution (%) of maturity stages per fishing trip and per hook size ..... 12

Table 8. Relative frequency distribution (%) of the number of females and males per fishing trip and per hook size ..... 13

## LIST OF FIGURES

Figure 1. Maps of the Gulf of St. Lawrence, of NAFO Divisions 4RST and of St. Georges Bay in Nova Scotia where the hook selectivity study took place. Insert: a photo of the port of Baxters Cove ..... 14

Figure 2. Average daily values of the gonadosomatic index (GSI) and condition factor (K) of Atlantic mackerel sampled in the southern Gulf of St. Lawrence from 1973 to 2005 (October) (F. Grégoire, unpublished data) and during the hook selectivity study ..... 15

Figure 3. Average age of catches calculated per fishing trip and hook size (A), per fishing trip (B), and per hook size (C) ..... 16

Figure 4. Average length (mm) (A) and weight (g) (B) at age for Atlantic mackerel sampled in the southern Gulf of St. Lawrence from 1973 to 2005 (October) (F. Grégoire, unpublished data) and during the hook selectivity study ..... 17

Figure 5. Boxplots of the lengths of Atlantic mackerel catches per fishing trip and hook size ..... 18

Figure 6. Boxplots of the lengths of Atlantic mackerel catches per fishing trip (A) and hook size (B) ..... 19

Figure 7. Relative frequency (%) of captured fish lengths per fishing trip and hook size (A) and per fishing trip (B) ..... 20

Figure 8. Relative frequency (%) of captured fish lengths per hook size ..... 21

## LIST OF APPENDICES

Appendix 1. Hooks used during the Atlantic mackerel selectivity study conducted in the fall of 2005 in St. Georges Bay, Nova Scotia.....22

Appendix 2. Biological characteristics of Atlantic mackerel sampled during the hook selectivity study conducted in the fall of 2005 in St. Georges Bay, Nova Scotia.....23

## ABSTRACT

Heighton, R., and F. Grégoire. 2006. A hook selectivity study for Atlantic mackerel (*Scomber scombrus* L.) caught in St. Georges Bay, Nova Scotia, in October 2005. Can. Ind. Rep. Fish. Aquat. Sci. 278: vii + 50 p.

Following a proposal by the Northumberland Fishermen's Association, a study was conducted in the fall of 2005 on the selectivity of hooks used in the Atlantic mackerel commercial fishery. The study lasted six days in St. Georges Bay, Nova Scotia. Two lines equipped with around forty hooks each were used for each fishing trip. One of the lines, called the "control" line and used during every trip, had number 10 sized hooks; the other lines had 2/0 or 4/0 sized hooks. The length distribution frequency of Atlantic mackerel caught by these hooks is characterized by two main modes: the main one around 300 mm and the other around 350 mm. The latter mode is associated with catches made using the 4/0 hooks. These results encourage to continue this study in order to determine a more selective hook shape and size that might help catch larger individuals while reducing the number of smaller Atlantic mackerel caught, which will reduce the mortality of small fish by discards at sea.

## RÉSUMÉ

Heighton, R., et F. Grégoire. 2006. A hook selectivity study for Atlantic mackerel (*Scomber scombrus* L.) caught in St. Georges Bay, Nova Scotia, in October 2005. Can. Ind. Rep. Fish. Aquat. Sci. 278: vii + 50 p.

À l'initiative de la Northumberland Fishermen's Association, une étude a été entreprise à l'automne 2005 sur la sélectivité des hameçons utilisés dans la pêche commerciale du maquereau. L'étude s'est déroulée pendant six jours dans la baie St-Georges en Nouvelle-Écosse. Deux lignes munies d'une quarantaine d'hameçons chacune ont été utilisées lors de chaque voyage de pêche. L'une des lignes, dite "témoin", utilisée à chacun des voyages, comportait des hameçons de grosseur numéro 10 et l'autre, des hameçons de grosseur 2/0 ou 4/0. La distribution de fréquences de longueur des maquereaux capturés par ces hameçons est caractérisée par la présence de deux modes principaux, un premier plus important situé vers 300 mm et un second, vers 350 mm. Ce deuxième mode est associé aux captures réalisées avec les hameçons de grosseur 4/0. Les résultats obtenus nous incitent à poursuivre cette étude afin de déterminer la forme et la grosseur d'un hameçon plus sélectif qui permettrait la capture d'individus de grande taille tout en réduisant les prises de petits maquereaux et, par le fait même, la mortalité qui résulte de leurs rejets en mer.

## 1.0 INTRODUCTION

In the southern Gulf of St. Lawrence, Atlantic mackerel (*Scomber scombrus* L.) is caught using lines in late summer and in the fall. Fishermen use a rod, a manual jigger or an automatic jigger system. Hooks of different sizes and shapes are used along with bright coloured natural or synthetic feathers or hair (red, yellow and green). In certain cases, only a rubber tube is placed around the hook's shank. From 1995 to 2005, annual landings for fishermen in the southern Gulf of St. Lawrence varied between 2,220 t and 13,660 t, for an annual average of 7,170 t (F. Grégoire, unpublished data). This fishery is increasingly popular given the growing market interest in mackerel.

Over the last two years (2004 and 2005), a troubling observation has been reported to the Department of Fisheries and Oceans (DFO) concerning large-scale discards at sea of small mackerel with lengths below the minimum legal catch size (250 mm) or below the industry's preferred size. These discards obviously represent a significant mortality that is difficult to quantify but is probably high since there are a large number of mackerel fishermen in the southern Gulf of St. Lawrence.

The issue of discards at sea and the related mortality has raised a lot of concern at DFO and with fishermen associations such as the Nova Scotia Northumberland Fishermen's Association. To further understand the issue, fishermen from this association submitted a research project to DFO in the fall of 2005. The objective of this project consisted in evaluating the size of the fish caught using different sized hooks in order to determine whether it was possible to significantly reduce the number of smaller mackerel being caught and thus lessen the mortality caused by discards at sea. It is important to note that there are very few studies on hook selectivity for catching marine fish (Sparre and Venema, 1996; Jennings et al. 2003) and none in terms of fishing for mackerel in the southern Gulf of St. Lawrence.

The objective of the current document is to describe the results obtained during the hook selectivity study conducted in the fall of 2005 in the southern Gulf of St. Lawrence. These results could eventually be used as a basis for a more comprehensive study that could be conducted over a more extensive period, at different fishing sites, and using a wider variety of hooks.

## 2.0 MATERIALS AND METHODS

St. Georges Bay, Nova Scotia (Figure 1), was chosen as the fishing site for the hook selectivity study because of the high number of fishermen fishing there. The study was conducted using a fishing boat, and all data collection and fish sampling activities were done by the captain (R. Heighton) and his crew. Two fishing lines with around forty hooks each were used for every fishing trip. The "control" line was equipped with number 10 sized hooks; the second had 2/0 or 4/0 sized hooks (Appendix 1). These lines were used simultaneously so as to fish the same concentrations of mackerel. For every fishing trip, the first 100 fish caught with each line were kept for laboratory analysis. Samples were transferred from the Baxters Cove home port

(Figure 1) to DFO's Maurice Lamontagne Institute by DFO's Commercial Sampling Programme (Mr. Hugues Benoît, Moncton, and Mr. Sylvain Hurtubise, Mont-Joli).

At the laboratory, the biological characteristics of the sampled fish were described by measuring the following variables: (1) fork length (± 1mm), (2) total weight (± 0.1 g), and (3) gonad weight (± 0.01 g). These variables were used to calculate the gonadosomatic index (GSI) and the Fulton condition factor (K) (Ricker, 1980) in the following way:

$$GSI = \left[ \frac{Gonad\ Weight\ (g)}{Total\ Weight\ (g)} \right] x\ 100$$

$$K = \left[ \frac{(Total\ Weight\ (g) - Gonad\ Weight\ (g))}{Fork\ Length^3\ (cm)} \right] x\ 100$$

Sexual maturity was determined by external examination of gonads, and otoliths were collected and used to determine age.

Descriptive statistics were calculated on the length, total weight, gonad weight, gonadosomatic index and condition factor for all the data and for data sorted by fishing trip and by hook size. The age composition of catches was studied as well as the maturity and sex ratios. For example, the gonadosomatic index and condition factor as well as the average length and weight at age measured during the current study were compared with data from commercial samples collected between 1973 and 2005 (F. Grégoire, unpublished data).

## 3.0 RESULTS

### 3.1 Total catches per fishing trip

The hook selectivity study was conducted from 17 through 24 October 2005. Six fishing trips with an average duration of 8 hours were carried out during this period (Table 1). Catches totalled 6,214 kg, for an average of 1,036 kg per fishing trip. The largest catches were made during the last three trips, in areas located in the southernmost part of St. Georges Bay. A total of 1,197 mackerel were frozen for laboratory analysis. Their biological characteristics are presented in Appendix 2.

### 3.2 Catch description

#### 3.2.1 Fork length and total weight

The average length of all the fish sampled during the study was 301.9 mm and the average weight was 313.7 g (Table 2). Per fishing trip and per hook size, the average length varied from 293.9 mm to 312.8 mm and the average weight from 277.0 g to 365.4 g (Table 3). These average lengths and weights are statistically different (ANOVA; length: $F=8.58$, $p<0.0001$; weight: $F=12.05$, $p<0.0001$).

Per fishing trip, the average length varied from 294.5 mm to 308.5 mm and the average weight from 282.1 g to 345.2 g (Table 4). These average lengths and weights are statistically different one from the other (ANOVA; length: $F=14.67$, $p<0.0001$; weight: $F=19.62$, $p<0.0001$).

For the 2/0 sized hooks, the average length of fish sampled was 298.9 mm compared to 300.6 mm and 307.5 mm for the number 10 and 4/0 sized hooks respectively (Table 5). These average lengths are statistically different (ANOVA, $F=14.71$, $p<0.0001$). However, the Tukey's a posteriori test indicates there are no differences between the fish caught by hook sizes number 10 and 2/0. The average weight of fish caught using the 2/0 hook was 300.7 g compared to 307.8 g and 338.2 g for those caught using the number 10 and 4/0 sized hooks respectively. These average weights are statistically different (ANOVA, $F=18.99$, $p<0.0001$), and the Tukey's test indicates that this difference is due to the average weight of fish captured by the 4/0 hook size.

#### 3.2.2 Gonad weight, gonadosomatic index, and condition factor

The average weight of sampled gonads was 1.53 g, with minimum and maximum values of 0.12 g and 7.36 g (Table 2). The average values of the gonadosomatic index and condition factor are 0.47 and 1.12 respectively. The gonadosomatic index varies from 0 to 1.87, and the condition factor from 0.43 to 2.43. This latter value is associated with a fish whose length and weight was only 186 mm and 159.1 g.

Per fishing trip and per hook size, the average weight of gonads varied from 1.15 g to 1.77 g (ANOVA, $F=2.42$, $p<0.01$) (Table 3). The average value of the gonadosomatic index varies from 0.41 to 0.52 (ANOVA, $F=1.22$, $P>0.05$), and the condition factor from 1.07 to 1.16 (ANOVA, $F=9.54$, $p<0.0001$).

Per fishing trip, the average weight of gonads varied from 1.22 g to 1.71 g (ANOVA, $F=3.46$, $p<0.01$) (Table 4), the average value of the gonadosomatic index from 0.42 to 0.48 (ANOVA, $F=0.83$, $P>0.05$), and the condition factor from 1.09 to 1.15 (ANOVA, $F=13.79$, $p<0.0001$). The average values of the gonadosomatic index and condition factor are similar to those calculated using the commercial samples collected in October from 1973 to 2005 in the southern Gulf of St. Lawrence (F. Grégoire, unpublished data) (Figures 2A and 2B).

For the data per hook size, the average gonad weight varied from 1.45 g to 1.72 g (ANOVA, $F=4.30$, $p<0.05$), the average value of the gonadosomatic index from 0.45 to 0.49 (ANOVA, $F=1.36$, $p>0.05$), and the condition factor from 1.11 to 1.14 (ANOVA, $F=9.85$, $p<0.0001$) (Table 5). According to the Tukey's test, the significant differences measured between the average weight of gonads and the average values of the condition factor are due to the 4/0 hook size.

**3.2.3** Age, maturity, and sex ratio

The samples collected were dominated by fish from age groups of 2 and 3 years (Table 6). Per fishing trip and per hook size, the average age varied from 2.06 years to 3.01 years (ANOVA, $F=9.17$, $p<0.0001$) and per fishing trip, from 2.06 years and 2.77 years (ANOVA, $F=16.57$, $p<0.0001$) (Figures 3A and 3B). The highest average ages were observed during the first two fishing trips. The average age of mackerel caught using number 10 hooks was 2.37 years, compared with 2.20 years and 2.71 years for those caught using 2/0 and 4/0 hooks respectively (Figure 3C). These ages are significantly different (ANOVA, $F=19.20$, $p<0.0001$). The Tukey's test indicates that this difference is due to the 4/0 hook size.

Aside from the age groups of 7 and/or 8 years, the average lengths (Figure 4A) and weights (Figure 4B) at age calculated during the current study were similar to those from commercial samples collected in the southern Gulf of St. Lawrence in October 2005. However, these average lengths and weights at age are inferior to those calculated between 1973 and 2004.

The collected samples were also dominated by fish with maturity stages of 2 (immature) and 8 (spent) (Table 7). For the entire study, a total of 548 females and 622 males were sampled, leading to a sex ratio significantly different from 1:1 (Chi-square, $p<0.05$) (27 fish could not be sexed). Per fishing trip and per hook size, the percentage of females present in the samples varied from 38.8% to 55.6%, per fishing trip from 43.9% to 50%, and by hook size from 44.2% to 49.7% (Table 8). A sex ratio different from 1:1 was measured only with the number 10 hook size (Chi-square, $p<0.01$).

**3.3 Median lengths**

Per fishing trip and per hook size, the median lengths varied from 293 mm to 308 mm, which represents a significant difference (Kruskal Wallis, $p< 0.0001$). For the number 10 hook size used during each of the fishing trips, median lengths were above 300 mm for the first two trips and below 300 mm for the others (Figure 5), again representing a significant difference (Kruskal Wallis, $p< 0.0001$).

The median lengths calculated per fishing trip were also significantly different (Kruskal Wallis, $p< 0.0001$), with the highest values for the first two trips (Figure 6A). Median lengths were 297 mm for number 10 hooks, 296 mm for 2/0 hooks, and 302 mm for 4/0 hooks. These median lengths are significantly different (Kruskal Wallis, $p<0.0001$) (Figure 6B).

### 3.4 Length frequency distribution

Fish of similar sizes were caught using the three hook sizes. The length frequency distribution presents two main modes, with the stronger peak at 300 mm and the secondary one at 350 mm (Figures 7A and 7B). This latter mode is associated with catches made using the 4/0 hooks (Figure 8).

## 4.0 CONCLUSION

The results obtained do not lead to any direct link between the sizes of the hooks used and the sizes of fish caught, although certain observations indicate trends. In fact, larger fish were caught with the 4/0 size hook, but smaller mackerel were still caught with these hooks. We believe that the current study was hindered by its too short duration and limited coverage (thus possibly sampling a single concentration of fish).

However, these results encourage further study to determine a more selective hook preferentially shape and size that might catch larger individuals while reducing the number of smaller Atlantic mackerel caught. The protocol should therefore be adapted so that the study is conducted over a longer period of time and in different fishing areas in order to sample different schools of fish using hooks of different sizes and shapes. The precise fishing effort should be measured in order to calculate and compare the catch rates associated with each hook used. An assessment of the number of discards at sea could also be made for the hook currently used by the commercial fishery. The position where the hook is anchored should also be noted in order to study how the fish is caught.

Furthermore, during the current study, discards mortality rate was not evaluated. This mortality rate could be assessed by placing fish in specially designed traps placed on the fishing grounds. At regular intervals, these traps could be raised and the number of mortalities counted.

Considering the heavy fishing effort by hooks and lines fishermen in the southern Gulf of St. Lawrence, we assume that this fishery has a significant level of unaccounted mortality for smaller mackerel. The selectivity study conducted in the fall of 2005 has raised a lot of interest from members of the Northumberland Fishermen's Association. This interest in conserving and protecting this species is much appreciated. It is important that research continues with the aim of reducing the fishery's inadvertent adverse impacts on the sustainability of this resource.

## 5.0 ACKNOWLEDGEMENTS

We would like to thank the members of the Northumberland Fishermen's Association who showed a great interest in this study. Gratitude is extended to Mr. Raynald Gosselin, Acting Senior Advisor – Pelagic Fish and Marine Mammals, DFO-Quebec, and Mr. Dario Lemelin, Senior Advisor – Groundfish, DFO-Quebec, for their assistance in revising this report. We thank Mr. Hugues Benoît, DFO-Moncton, and Mr. Sylvain Hurtubise, DFO-Mont-Joli, who heads the Commercial Sampling Programme, for providing valuable assistance in transporting samples to the Maurice Lamontagne Institute.

## 6.0 REFERENCES

Jennings, S., M. J. Kaiser and J. D. Reynolds. 2003. Marine fisheries ecology. Blackwell Science Ltd. Malden, USA. 417 pp.

Ricker, W.E. 1980. Calcul et interprétation des statistiques biologiques des populations de poissons. Bull. Fish. Res. Board Can. 191F: 409 pp.

Sparre, P., and S. C. Venema. 1996. Introduction à l'évaluation des stocks de poissons tropicaux. Première partie : Manuel. FAO Document technique sur les pêches. No. 306.1, Rev. 1. Rome. 401 pp.

Table 1. Description of fishing and sampling activities during the hook selectivity study for Atlantic mackerel.

| SAMPLING DATE (yyyy-mm-dd) | FISHING LOCATION[1] Latitude °N (degrees minutes) | Longitude °W (degrees minutes) | BOTTOM DEPTH (fathom) | HOOK SIZE 10[2] | 2/0 | 4/0 | FISHING TRIP DURATION (hr) | CATCH (kg) |
|---|---|---|---|---|---|---|---|---|
| 2005-10-17 | 45° 52.756 | 61° 37.810 | 100 | ✓ | | ✓ | 8 | 181 |
| 2005-10-18 | 45° 51.343 | 61° 46.061 | 120 | ✓ | | ✓ | 10 | 590 |
| 2005-10-19 | 45° 55.577 | 61° 57.193 | 100 | ✓ | ✓ | | 9 | 907 |
| 2005-10-22 | 45° 43.759 | 61° 33.467 | 85 | ✓ | ✓ | | 6 | 1,179 |
| 2005-10-23 | 45° 46.938 | 61° 33.240 | 75 | ✓ | | ✓ | 7 | 1,633 |
| 2005-10-24 | 45° 46.307 | 61° 44.107 | 95 | ✓ | ✓ | | 8 | 1,724 |
| AVERAGE: | | | | | | | 8 | 1,036 |
| TOTAL: | | | | | | | 48 | 6,214 |

[1] See Figure 1
[2] Control

Table 2. Descriptive statistics of the biological characteristics of Atlantic mackerel sampled during the hook selectivity study.

| STATISTIC | LENGTH (mm) | WEIGHT (g) Total | Gonad | GONADOSOMATIC INDEX % (GSI) | FULTON CONDITION FACTOR (K) |
|---|---|---|---|---|---|
| Mean | 301.9 | 313.7 | 1.53 | 0.47 | 1.12 |
| SD | 21.1 | 82.5 | 1.28 | 0.32 | 0.09 |
| Minimum | 186 | 143.1 | 0.12 | 0.00 | 0.43 |
| Maximum | 398 | 655.8 | 7.36 | 1.87 | 2.43 |
| Range | 212 | 512.7 | 7.24 | 1.87 | 2.00 |
| n | 1197 | 1197 | 1081 | 1082 | 1082 |

Table 3. Descriptive statistics calculated per fishing trip and per hook size for the biological characteristics of Atlantic mackerel sampled during the hook selectivity study.

| VARIABLE | STATISTIC | DAY-MONTH ( HOOK SIZE) | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 17-10 (10) | 17-10 (4/0) | 18-10 (10) | 18-10 (4/0) | 19-10 (10) | 19-10 (2/0) | 22-10 (10) | 22-10 (2/0) | 23-10 (10) | 23-10 (4/0) | 24-10 (10) | 24-10 (2/0) |
| LENGTH (mm) | Mean | 304.2 | 312.8 | 310.4 | 305.4 | 297.9 | 297.0 | 299.1 | 304.8 | 298.3 | 304.2 | 293.9 | 295.0 |
| | SD | 21.8 | 24.1 | 20.5 | 27.6 | 18.5 | 17.1 | 21.5 | 19.3 | 18.1 | 21.8 | 16.3 | 15.3 |
| | Minimum | 252 | 262 | 270 | 186 | 248 | 250 | 254 | 262 | 260 | 260 | 256 | 255 |
| | Maximum | 377 | 365 | 365 | 398 | 373 | 336 | 371 | 366 | 368 | 369 | 357 | 361 |
| | Range | 125 | 103 | 95 | 212 | 125 | 86 | 117 | 104 | 108 | 109 | 101 | 106 |
| | n | 100 | 100 | 100 | 100 | 100 | 99 | 100 | 99 | 100 | 100 | 99 | 100 |
| WEIGHT (g) | Mean | 325.0 | 365.4 | 350.1 | 324.6 | 295.6 | 287.1 | 308.6 | 328.0 | 290.5 | 324.6 | 277.0 | 287.2 |
| | SD | 89.7 | 98.3 | 85.6 | 94.9 | 67.4 | 59.7 | 85.8 | 74.7 | 69.1 | 82.7 | 61.1 | 60.5 |
| | Minimum | 156.1 | 216.9 | 198.0 | 143.1 | 148.6 | 157.8 | 160.0 | 186.5 | 168.8 | 193.5 | 177.7 | 157.9 |
| | Maximum | 655.8 | 628.9 | 571.9 | 615.0 | 566.0 | 454.4 | 625.8 | 576.0 | 620.4 | 556.9 | 557.4 | 584.2 |
| | Range | 499.7 | 412.0 | 373.9 | 471.9 | 417.4 | 296.6 | 465.8 | 389.5 | 451.6 | 363.4 | 379.7 | 426.3 |
| | n | 100 | 100 | 100 | 100 | 100 | 99 | 100 | 99 | 100 | 100 | 99 | 100 |
| GONAD WEIGHT (g) | Mean | 1.77 | 1.66 | 1.57 | 1.76 | 1.47 | 1.46 | 1.41 | 1.72 | 1.35 | 1.74 | 1.15 | 1.29 |
| | SD | 1.36 | 1.41 | 1.39 | 1.39 | 1.28 | 1.08 | 1.10 | 1.26 | 1.26 | 1.61 | 0.83 | 1.06 |
| | Minimum | 0.27 | 0.21 | 0.18 | 0.16 | 0.17 | 0.16 | 0.15 | 0.29 | 0.17 | 0.22 | 0.12 | 0.21 |
| | Maximum | 6.23 | 5.82 | 7.36 | 6.03 | 7.09 | 5.09 | 6.48 | 5.50 | 6.52 | 6.78 | 3.58 | 5.96 |
| | Range | 5.96 | 5.61 | 7.18 | 5.87 | 6.92 | 4.93 | 6.33 | 5.21 | 6.35 | 6.56 | 3.46 | 5.75 |
| | n | 89 | 93 | 96 | 94 | 75 | 78 | 93 | 92 | 90 | 99 | 89 | 93 |
| GSI | Mean | 0.51 | 0.44 | 0.43 | 0.52 | 0.46 | 0.48 | 0.45 | 0.51 | 0.45 | 0.50 | 0.41 | 0.43 |
| | SD | 0.30 | 0.31 | 0.32 | 0.35 | 0.31 | 0.29 | 0.31 | 0.31 | 0.33 | 0.38 | 0.29 | 0.29 |
| | Minimum | 0.00 | 0.06 | 0.06 | 0.06 | 0.06 | 0.07 | 0.06 | 0.10 | 0.05 | 0.08 | 0.05 | 0.08 |
| | Maximum | 1.15 | 1.11 | 1.29 | 1.87 | 1.25 | 1.24 | 1.25 | 1.12 | 1.26 | 1.27 | 1.25 | 1.02 |
| | Range | 1.15 | 1.05 | 1.23 | 1.82 | 1.19 | 1.18 | 1.19 | 1.03 | 1.21 | 1.19 | 1.20 | 0.94 |
| | n | 90 | 93 | 96 | 94 | 75 | 78 | 93 | 92 | 90 | 99 | 89 | 93 |
| K | Mean | 1.13 | 1.16 | 1.15 | 1.12 | 1.10 | 1.08 | 1.13 | 1.14 | 1.07 | 1.13 | 1.08 | 1.10 |
| | SD | 0.08 | 0.08 | 0.07 | 0.19 | 0.08 | 0.07 | 0.08 | 0.06 | 0.07 | 0.08 | 0.08 | 0.08 |
| | Minimum | 0.96 | 0.96 | 0.95 | 0.43 | 0.94 | 0.95 | 0.96 | 0.99 | 0.85 | 0.84 | 0.82 | 0.87 |
| | Maximum | 1.31 | 1.36 | 1.35 | 2.43 | 1.29 | 1.24 | 1.36 | 1.29 | 1.26 | 1.35 | 1.31 | 1.39 |
| | Range | 0.35 | 0.40 | 0.41 | 2.00 | 0.36 | 0.29 | 0.39 | 0.30 | 0.41 | 0.52 | 0.49 | 0.52 |
| | n | 90 | 93 | 96 | 94 | 75 | 78 | 93 | 92 | 90 | 99 | 89 | 93 |

Table 4. Descriptive statistics calculated per fishing trip for the biological characteristics of Atlantic mackerel sampled during the hook selectivity study.

| VARIABLE | STATISTIC | DAY-MONTH | | | | | |
|---|---|---|---|---|---|---|---|
| | | 17-10 | 18-10 | 19-10 | 22-10 | 23-10 | 24-10 |
| LENGTH (mm) | Mean | 308.5 | 307.9 | 297.4 | 301.9 | 301.2 | 294.5 |
| | SD | 23.3 | 24.4 | 17.8 | 20.6 | 20.2 | 15.8 |
| | Minimum | 252 | 186 | 248 | 254 | 260 | 255 |
| | Maximum | 377 | 398 | 373 | 371 | 369 | 361 |
| | Range | 125 | 212 | 125 | 117 | 109 | 106 |
| | n | 200 | 200 | 199 | 199 | 200 | 199 |
| WEIGHT (g) | Mean | 345.2 | 337.3 | 291.4 | 318.3 | 307.5 | 282.1 |
| | SD | 96.0 | 91.0 | 63.6 | 80.9 | 77.9 | 60.9 |
| | Minimum | 156.1 | 143.1 | 148.6 | 160.0 | 168.8 | 157.9 |
| | Maximum | 655.8 | 615.0 | 566.0 | 625.8 | 620.4 | 584.2 |
| | Range | 499.7 | 471.9 | 417.4 | 465.8 | 451.6 | 426.3 |
| | n | 200 | 200 | 199 | 199 | 200 | 199 |
| GONAD WEIGHT (g) | Mean | 1.71 | 1.67 | 1.46 | 1.56 | 1.55 | 1.22 |
| | SD | 1.38 | 1.39 | 1.18 | 1.19 | 1.46 | 0.96 |
| | Minimum | 0.21 | 0.16 | 0.16 | 0.15 | 0.17 | 0.12 |
| | Maximum | 6.23 | 7.36 | 7.09 | 6.48 | 6.78 | 5.96 |
| | Range | 6.02 | 7.20 | 6.93 | 6.33 | 6.61 | 5.84 |
| | n | 182 | 190 | 153 | 185 | 189 | 182 |
| GSI | Mean | 0.47 | 0.48 | 0.47 | 0.48 | 0.48 | 0.42 |
| | SD | 0.31 | 0.34 | 0.30 | 0.31 | 0.36 | 0.29 |
| | Minimum | 0.00 | 0.06 | 0.06 | 0.06 | 0.05 | 0.05 |
| | Maximum | 1.15 | 1.87 | 1.25 | 1.25 | 1.27 | 1.25 |
| | Range | 1.15 | 1.82 | 1.19 | 1.19 | 1.21 | 1.20 |
| | n | 183 | 190 | 153 | 185 | 189 | 182 |
| K | Mean | 1.15 | 1.13 | 1.09 | 1.13 | 1.10 | 1.09 |
| | SD | 0.08 | 0.14 | 0.07 | 0.07 | 0.08 | 0.08 |
| | Minimum | 0.96 | 0.43 | 0.94 | 0.96 | 0.84 | 0.82 |
| | Maximum | 1.36 | 2.43 | 1.29 | 1.36 | 1.35 | 1.39 |
| | Range | 0.40 | 2.00 | 0.36 | 0.39 | 0.52 | 0.58 |
| | n | 183 | 190 | 153 | 185 | 189 | 182 |

Table 5. Descriptive statistics calculated per hook size for the biological characteristics of Atlantic mackerel sampled during the hook selectivity study.

| VARIABLE | STATISTIC | HOOK SIZE | | |
|---|---|---|---|---|
| | | 10 | 2/0 | 4/0 |
| LENGTH (mm) | Mean | 300.6 | 298.9 | 307.5 |
| | SD | 20.2 | 17.8 | 24.8 |
| | Minimum | 248 | 250 | 186 |
| | Maximum | 377 | 366 | 398 |
| | Range | 129 | 116 | 212 |
| | n | 599 | 298 | 300 |
| WEIGHT (g) | Mean | 307.8 | 300.7 | 338.2 |
| | STD | 80.6 | 67.9 | 93.9 |
| | Minimum | 148.6 | 157.8 | 143.1 |
| | Maximum | 655.8 | 584.2 | 628.9 |
| | RANGE | 507.2 | 426.4 | 485.8 |
| | n | 599 | 298 | 300 |
| GONAD WEIGHT (g) | Mean | 1.45 | 1.49 | 1.72 |
| | STD | 1.23 | 1.15 | 1.47 |
| | Minimum | 0.12 | 0.16 | 0.16 |
| | Maximum | 7.36 | 5.96 | 6.78 |
| | RANGE | 7.24 | 5.80 | 6.62 |
| | n | 532 | 263 | 286 |
| GSI | Mean | 0.45 | 0.47 | 0.49 |
| | STD | 0.31 | 0.30 | 0.35 |
| | Minimum | 0.00 | 0.07 | 0.06 |
| | Maximum | 1.29 | 1.24 | 1.87 |
| | RANGE | 1.29 | 1.18 | 1.82 |
| | n | 533 | 263 | 286 |
| K | Mean | 1.11 | 1.11 | 1.14 |
| | STD | 0.08 | 0.08 | 0.12 |
| | Minimum | 0.82 | 0.87 | 0.43 |
| | Maximum | 1.36 | 1.39 | 2.43 |
| | RANGE | 0.54 | 0.52 | 2.00 |
| | n | 533 | 263 | 286 |

Table 6. Relative frequency distribution (%) of fish age per fishing trip and per hook size.

| AGE | DAY-MONTH ( HOOK SIZE) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 17-10 (10) | 17-10 (4/0) | 18-10 (10) | 18-10 (4/0) | 19-10 (10) | 19-10 (2/0) | 22-10 (10) | 22-10 (2/0) | 23-10 (10) | 23-10 (4/0) | 24-10 (10) | 24-10 (2/0) | TOTAL |
| 1 | 3.1 | 1.0 | 1.0 | 5.1 | 7.0 | 7.4 | 8.2 | 3.1 | 3.0 | 2.0 | 6.3 | 5.2 | 4.3 |
| 2 | 62.2 | 46.5 | 62.6 | 61.2 | 74.0 | 77.9 | 70.4 | 68.8 | 81.0 | 70.4 | 87.5 | 88.5 | 70.8 |
| 3 | 25.5 | 29.3 | 17.2 | 17.4 | 15.0 | 10.5 | 11.2 | 20.8 | 13.0 | 17.4 | 4.2 | 3.1 | 15.4 |
| 4 | 3.1 | 9.1 | 5.1 | 5.1 | 1.0 | 4.2 | 5.1 | 2.1 | 0.0 | 6.1 | 0.0 | 2.1 | 3.6 |
| 5 | 3.1 | 2.0 | 2.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.9 |
| 6 | 3.1 | 12.1 | 9.1 | 10.2 | 2.0 | 0.0 | 5.1 | 4.2 | 2.0 | 3.1 | 2.1 | 1.0 | 4.5 |
| 7 | 0.0 | 0.0 | 2.0 | 1.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| 8 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |

| AGE | DAY-MONTH | | | | | |
|---|---|---|---|---|---|---|
| | 17-10 | 18-10 | 19-10 | 22-10 | 23-10 | 24-10 |
| 1 | 2.0 | 3.1 | 7.2 | 5.7 | 2.5 | 5.7 |
| 2 | 54.3 | 61.9 | 75.9 | 69.6 | 75.8 | 88.0 |
| 3 | 27.4 | 17.3 | 12.8 | 16.0 | 15.2 | 3.7 |
| 4 | 6.1 | 5.1 | 2.6 | 3.6 | 3.0 | 1.0 |
| 5 | 2.5 | 1.0 | 0.0 | 0.5 | 1.0 | 0.0 |
| 6 | 7.6 | 9.6 | 1.0 | 4.6 | 2.5 | 1.6 |
| 7 | 0.0 | 1.5 | 0.5 | 0.0 | 0.0 | 0.0 |
| 8 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 |

| AGE | HOOK SIZE | | |
|---|---|---|---|
| | 10 | 2/0 | 4/0 |
| 1 | 4.7 | 5.2 | 2.7 |
| 2 | 72.9 | 78.4 | 59.3 |
| 3 | 14.4 | 11.5 | 21.4 |
| 4 | 2.4 | 2.8 | 6.8 |
| 5 | 1.0 | 0.4 | 1.0 |
| 6 | 3.9 | 1.7 | 8.5 |
| 7 | 0.5 | 0.0 | 0.3 |
| 8 | 0.2 | 0.0 | 0.0 |

Table 7. Relative frequency distribution (%) of maturity stages per fishing trip and per hook size. Maturity codes are as follows: 1= immature; 2= maturing; 3= recovering; 4= developing; 5= gravid; 6= beginning of spawning; 7= end of spawning; 8= spent.

| MATURITY | DAY-MONTH ( HOOK SIZE) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| STAGE | 17-10 (10) | 17-10 (4/0) | 18-10 (10) | 18-10 (4/0) | 19-10 (10) | 19-10 (2/0) | 22-10 (10) | 22-10 (2/0) | 23-10 (10) | 23-10 (4/0) | 24-10 (10) | 24-10 (2/0) | TOTAL |
| 1 | 2.2 | 1.0 | 0.0 | 0.0 | 2.1 | 2.2 | 4.1 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 1.1 |
| 2 | 55.9 | 49.0 | 43.9 | 53.6 | 40.4 | 69.6 | 40.8 | 58.8 | 69.9 | 63.0 | 83.9 | 86.2 | 59.4 |
| 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.1 |
| 8 | 41.9 | 50.0 | 56.1 | 46.4 | 57.5 | 28.3 | 55.1 | 41.2 | 29.0 | 37.0 | 15.1 | 13.8 | 39.5 |

| MATURITY | DAY-MONTH | | | | | |
|---|---|---|---|---|---|---|
| STAGE | 17-10 | 18-10 | 19-10 | 22-10 | 23-10 | 24-10 |
| 1 | 1.6 | 0.0 | 2.2 | 2.1 | 0.0 | 0.5 |
| 2 | 52.4 | 48.7 | 54.8 | 49.7 | 66.3 | 85.0 |
| 7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 |
| 8 | 46.0 | 51.3 | 43.0 | 48.2 | 33.2 | 14.4 |

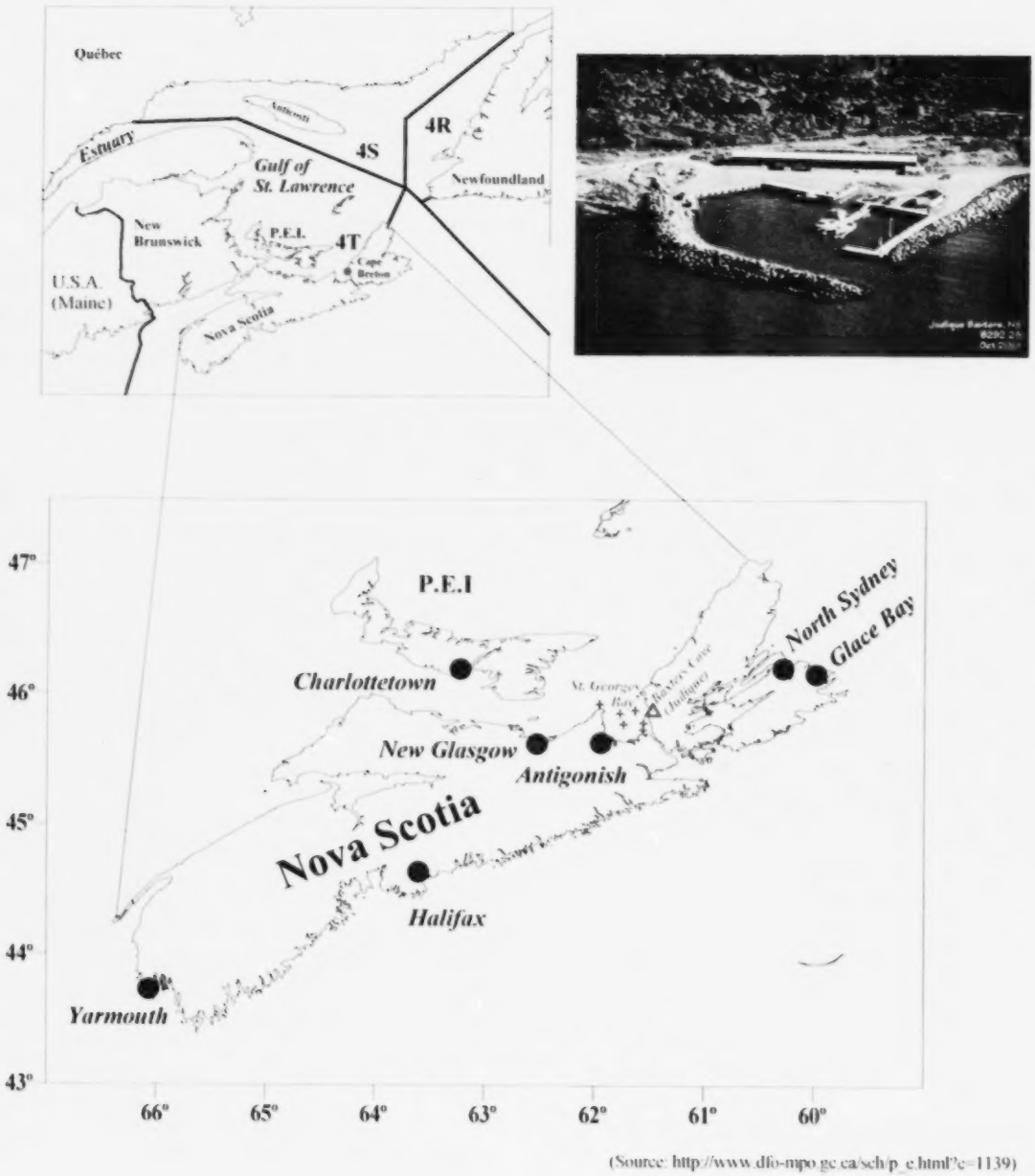
| MATURITY | HOOK SIZE | | |
|---|---|---|---|
| STAGE | 10 | 2/0 | 4/0 |
| 1 | 1.6 | 0.7 | 0.3 |
| 2 | 55.5 | 71.4 | 55.3 |
| 7 | 0.2 | 0.0 | 0.0 |
| 8 | 42.7 | 27.9 | 44.4 |

Table 8. Relative frequency distribution (%) of the number of females and males per fishing trip and per hook size.

| | DAY-MONTH ( HOOK SIZE) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 17-10 (10) | 17-10 (4/0) | 18-10 (10) | 18-10 (4/0) | 19-10 (10) | 19-10 (2/0) | 22-10 (10) | 22-10 (2/0) | 23-10 (10) | 23-10 (4/0) | 24-10 (10) | 24-10 (2/0) | TOTAL |
| MALE | 44.7 | 56.3 | 59.0 | 44.4 | 57.6 | 51.6 | 53.0 | 47.0 | 61.2 | 51.0 | 59.0 | 52.6 | 53.1 |
| FEMALE | 55.3 | 43.8 | 41.0 | 55.6 | 42.4 | 48.4 | 47.0 | 53.0 | 38.8 | 49.0 | 41.1 | 47.4 | 46.9 |

| | DAY-MONTH | | | | | |
|---|---|---|---|---|---|---|
| | 17-10 | 18-10 | 19-10 | 22-10 | 23-10 | 24-10 |
| MALE | 50.5 | 51.8 | 54.6 | 50.0 | 56.1 | 55.8 |
| FEMALE | 49.5 | 48.2 | 45.4 | 50.0 | 43.9 | 44.2 |

| | HOOK SIZE | | |
|---|---|---|---|
| | 10 | 2/0 | 4/0 |
| MALE | 55.8 | 50.3 | 50.5 |
| FEMALE | 44.2 | 49.7 | 49.5 |




(Source: http://www.dfo-mpo.gc.ca/sch/p_e.html?c=1139)

Figure 1. Maps of the Gulf of St. Lawrence, of NAFO Divisions 4RST and of St. Georges Bay in Nova Scotia where the hook selectivity study took place. Insert: a photo of the port of Baxters Cove.

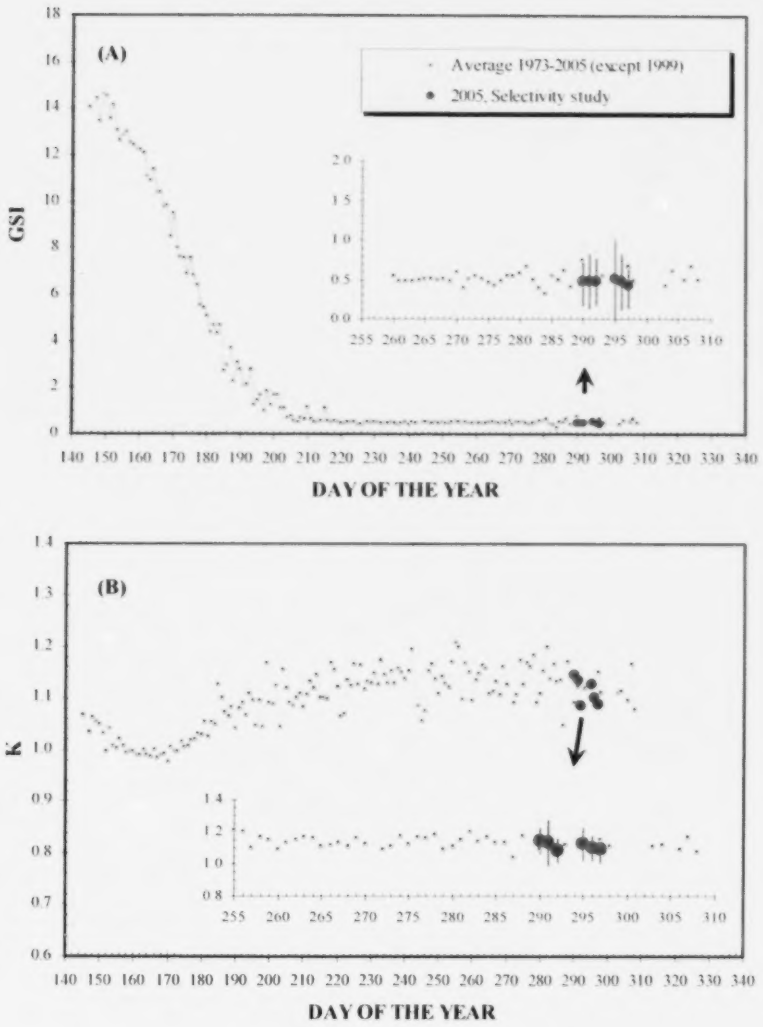



Figure 2. Average daily values of the gonadosomatic index (GSI) and condition factor (K) of Atlantic mackerel sampled in the southern Gulf of St. Lawrence from 1973 to 2005 (October) (F. Grégoire, unpublished data) and during the hook selectivity study.

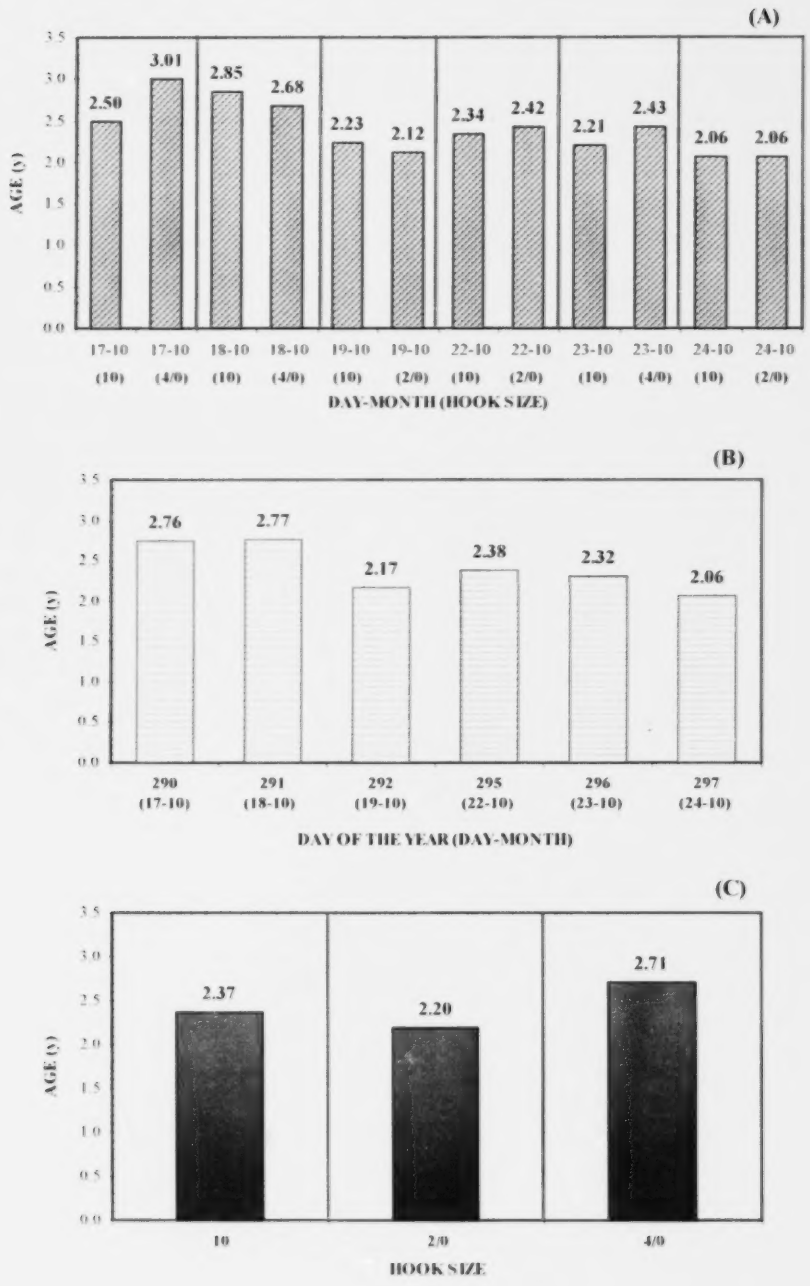



Figure 3. Average age of catches calculated per fishing trip and hook size (A), per fishing trip (B), and per hook size (C).

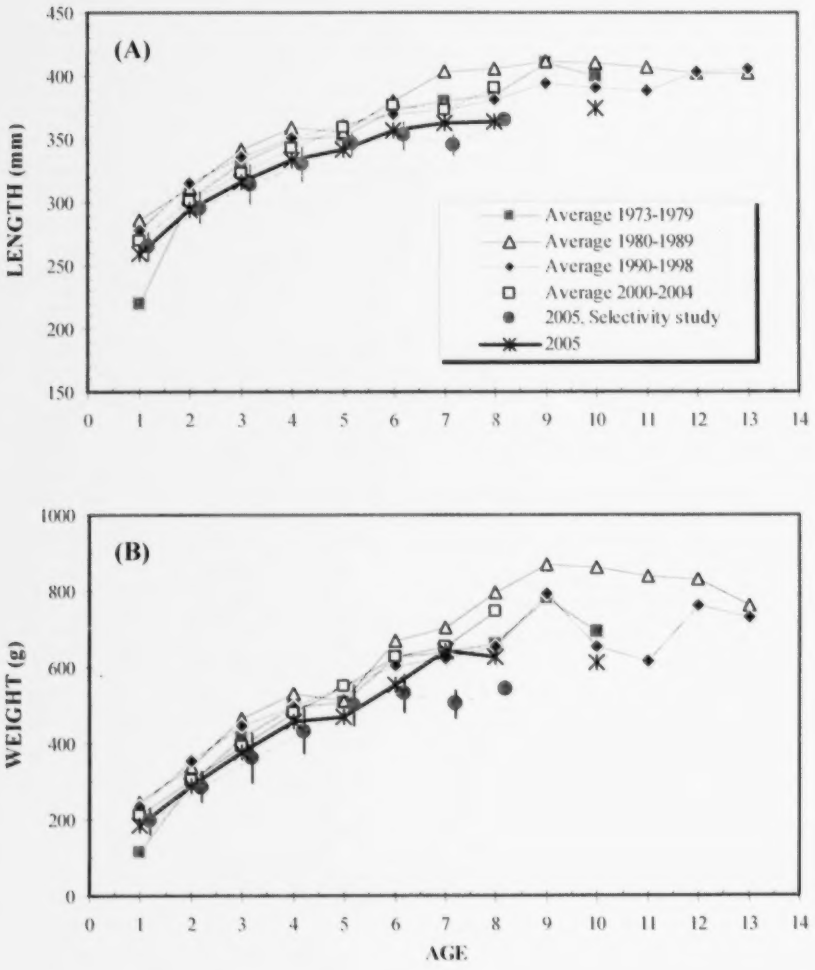



Figure 4. Average length (mm) (A) and weight (g) (B) at age for Atlantic mackerel sampled in the southern Gulf of St. Lawrence from 1973 to 2005 (October) (F. Grégoire, unpublished data) and during the hook selectivity study.

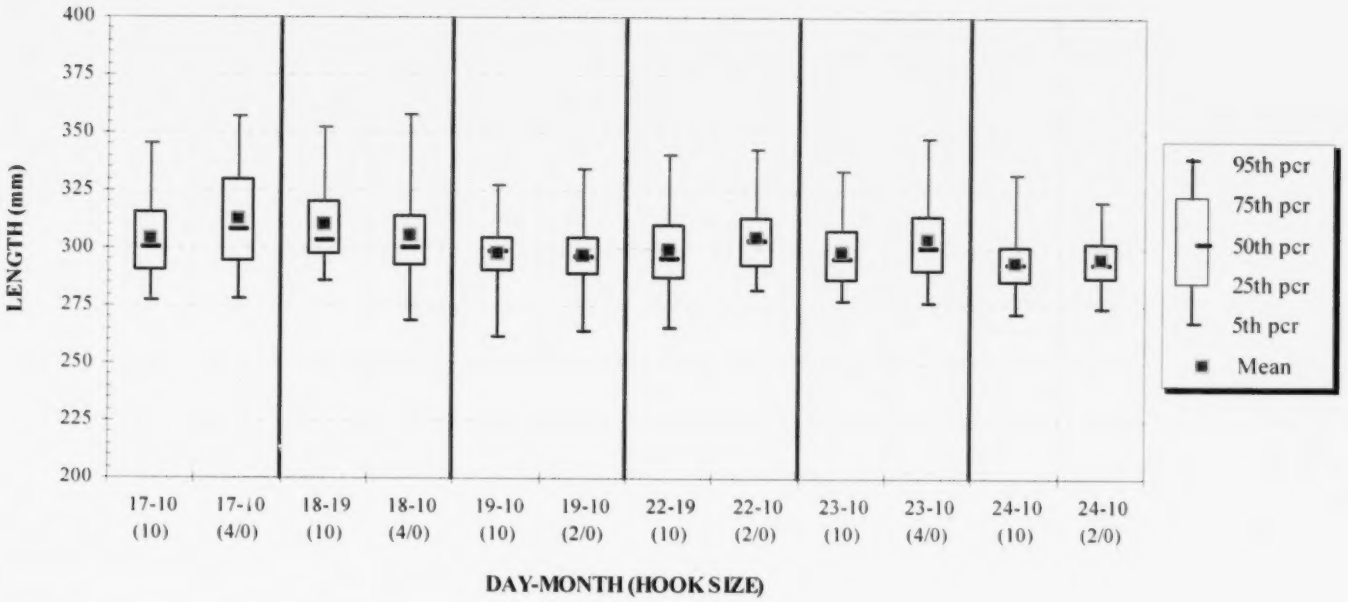



Figure 5. Boxplots of the lengths of Atlantic mackerel catches per fishing trip and hook size.

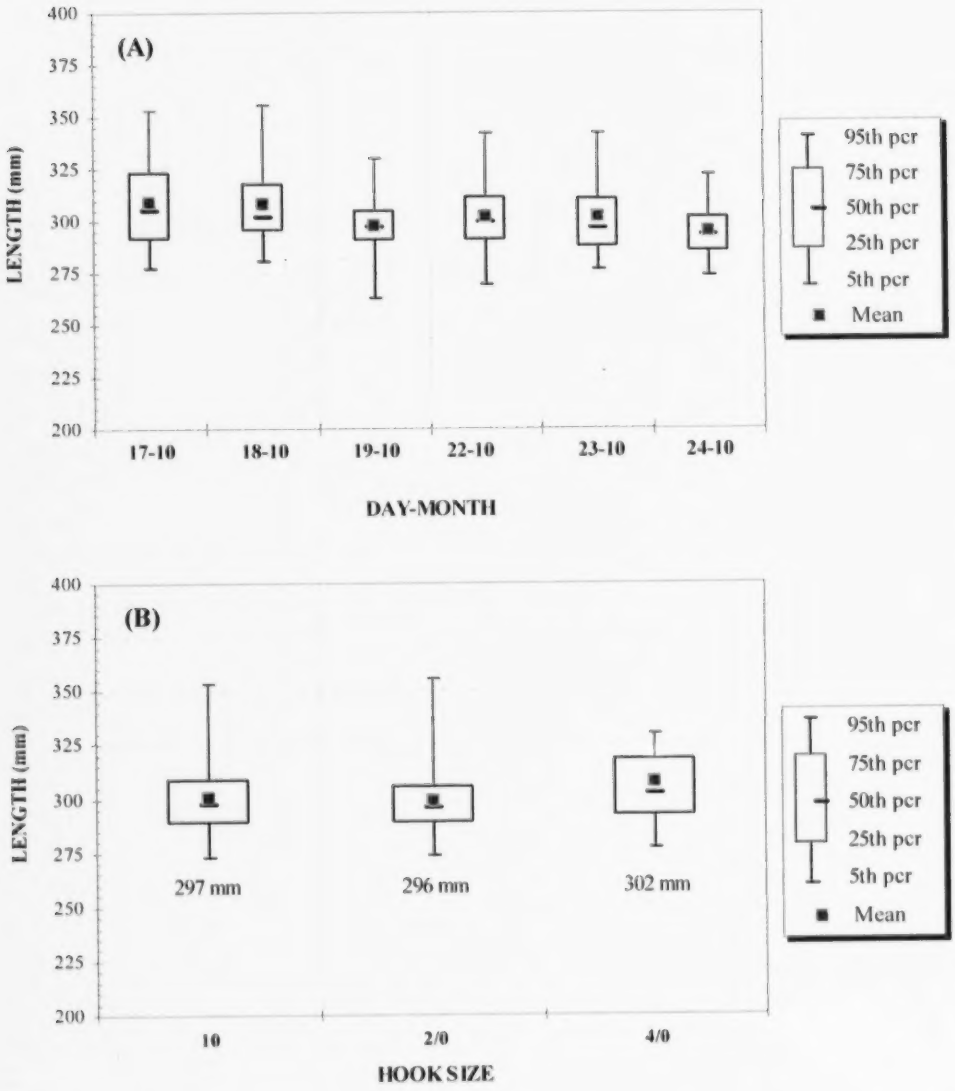



Figure 6. Boxplots of the lengths of Atlantic mackerel catches per fishing trip (A) and hook size (B).

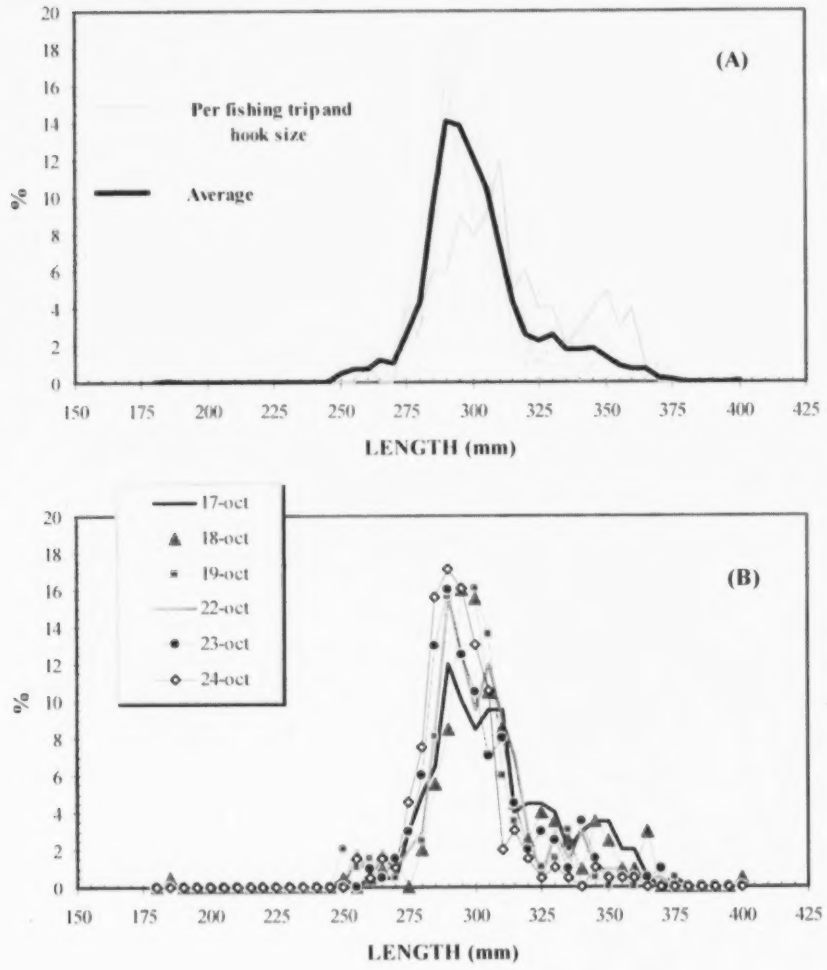



Figure 7. Relative frequency (%) of captured fish lengths per fishing trip and hook size (A) and per fishing trip (B).

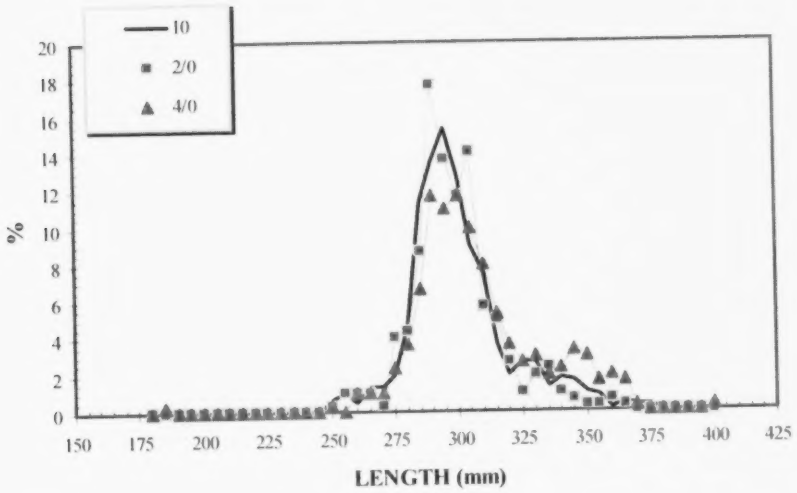
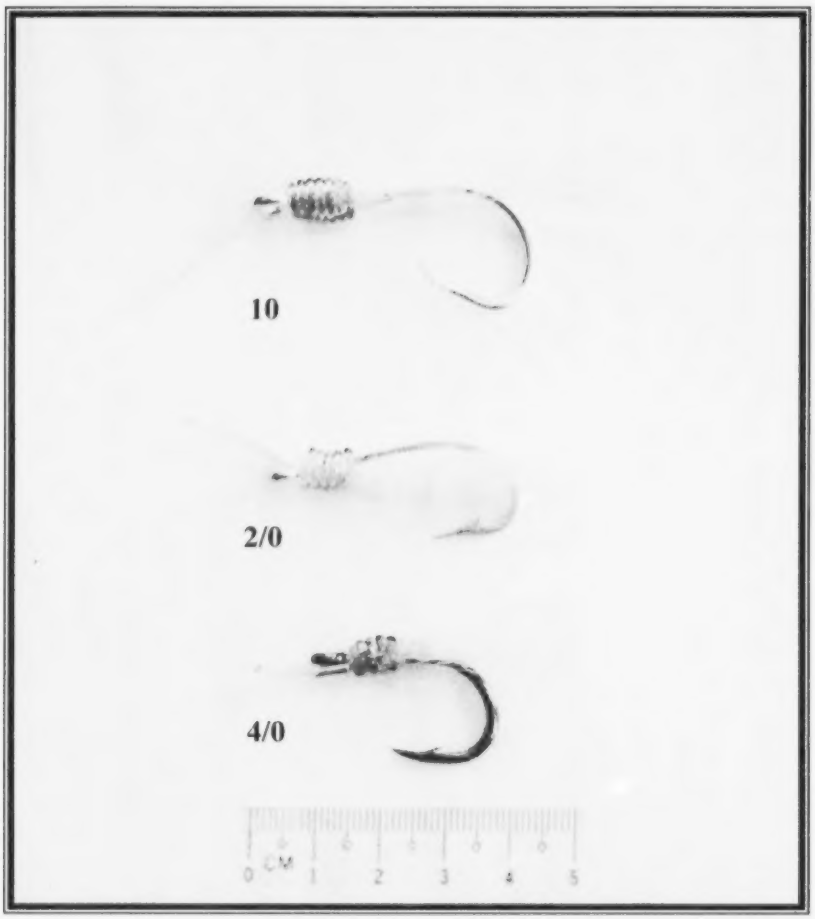



Figure 8. Relative frequency (%) of captured fish lengths per hook size.

Appendix 1. Hooks used during the Atlantic mackerel selectivity study conducted in the fall of 2005 in St. Georges Bay, Nova Scotia.



Appendix 2. Biological characteristics of Atlantic mackerel sampled during the hook selectivity study conducted in the fall of 2005 in St. Georges Bay, Nova Scotia (n.d.=not determined). Sex codes are as follows: 1=male; 2=female. Maturity codes are as follows: 1= immature; 2= maturing; 3= recovering; 4= developing; 5= gravid; 6= beginning of spawning; 7= end of spawning; 8= spent.

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) Total | Somatic[1] | Gonad | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 17 | 10 | 294 | 304.1 | 303.7 | 0.42 | 1 | 2 | 0.14 | 1.20 | 2 |
| 10 | 17 | 10 | 296 | 323.4 | 322.7 | 0.68 | 1 | 2 | 0.21 | 1.24 | 2 |
| 10 | 17 | 10 | 351 | 502.4 | 501.5 | 0.89 | 1 | 8 | 0.18 | 1.16 | 5 |
| 10 | 17 | 10 | 307 | 351.8 | 351.0 | 0.85 | 1 | 2 | 0.24 | 1.21 | 2 |
| 10 | 17 | 10 | 304 | 286.2 | 285.9 | 0.33 | 1 | 2 | 0.12 | 1.02 | 2 |
| 10 | 17 | 10 | 285 | 283.1 | 281.6 | 1.53 | 2 | 2 | 0.54 | 1.22 | 2 |
| 10 | 17 | 10 | 303 | 332.8 | 329.9 | 2.92 | 2 | 8 | 0.88 | 1.19 | 2 |
| 10 | 17 | 10 | 290 | 264.3 | 262.0 | 2.33 | 2 | 2 | 0.88 | 1.07 | 2 |
| 10 | 17 | 10 | 311 | 350.3 | 348.2 | 2.12 | 2 | 8 | 0.61 | 1.16 | 2 |
| 10 | 17 | 10 | 300 | 312.9 | 310.9 | 2.00 | 2 | 8 | 0.64 | 1.15 | 2 |
| 10 | 17 | 10 | 278 | 225.2 | 223.5 | 1.73 | 2 | 2 | 0.77 | 1.04 | 1 |
| 10 | 17 | 10 | 276 | 226.7 | 225.2 | 1.52 | 2 | 2 | 0.67 | 1.07 | 2 |
| 10 | 17 | 10 | 280 | 231.3 | 230.7 | 0.63 | 1 | 2 | 0.27 | 1.05 | 2 |
| 10 | 17 | 10 | 326 | 452.9 | 449.1 | 3.77 | 2 | 8 | 0.83 | 1.30 | 3 |
| 10 | 17 | 10 | 290 | 297.2 | 294.6 | 2.56 | 2 | 2 | 0.86 | 1.21 | 2 |
| 10 | 17 | 10 | 294 | 293.7 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 3 |
| 10 | 17 | 10 | 272 | 197.9 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 17 | 10 | 308 | 328.7 | 326.1 | 2.57 | 2 | 8 | 0.78 | 1.12 | 2 |
| 10 | 17 | 10 | 284 | 233.5 | 232.2 | 1.26 | 2 | 2 | 0.54 | 1.01 | 2 |
| 10 | 17 | 10 | 310 | 360.3 | 359.2 | 1.10 | 1 | 8 | 0.31 | 1.21 | 2 |
| 10 | 17 | 10 | 332 | 481.7 | 477.7 | 3.96 | 2 | 8 | 0.82 | 1.31 | 3 |
| 10 | 17 | 10 | 292 | 272.2 | 271.5 | 0.68 | 1 | 2 | 0.25 | 1.09 | 2 |
| 10 | 17 | 10 | 280 | 256.3 | 254.8 | 1.55 | 2 | 2 | 0.60 | 1.16 | 3 |
| 10 | 17 | 10 | 283 | 249.4 | 248.2 | 1.25 | 2 | 2 | 0.50 | 1.09 | 2 |
| 10 | 17 | 10 | 285 | 225.5 | 224.9 | 0.58 | 1 | 2 | 0.26 | 0.97 | n.d. |
| 10 | 17 | 10 | 287 | 257.7 | 255.7 | 2.03 | 2 | 2 | 0.79 | 1.08 | 2 |
| 10 | 17 | 10 | 252 | 156.1 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 1 |
| 10 | 17 | 10 | 273 | 192.7 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 2 |
| 10 | 17 | 10 | 288 | 288.4 | 286.1 | 2.34 | 2 | 2 | 0.81 | 1.20 | 3 |
| 10 | 17 | 10 | 339 | 493.4 | 491.5 | 1.86 | 1 | 8 | 0.38 | 1.26 | 5 |
| 10 | 17 | 10 | 298 | 305.5 | 305.0 | 0.50 | 1 | 2 | 0.16 | 1.15 | 2 |
| 10 | 17 | 10 | 348 | 470.4 | 469.2 | 1.18 | 1 | 8 | 0.25 | 1.11 | 6 |
| 10 | 17 | 10 | 291 | 290.4 | 288.6 | 1.82 | 2 | 2 | 0.63 | 1.17 | 2 |
| 10 | 17 | 10 | 290 | 274.3 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 17 | 10 | 307 | 346.8 | 344.3 | 2.50 | 2 | 8 | 0.72 | 1.19 | 3 |
| 10 | 17 | 10 | 326 | 393.2 | 389.6 | 3.58 | 2 | 8 | 0.91 | 1.12 | 3 |
| 10 | 17 | 10 | 264 | 185.7 | 184.9 | 0.79 | 2 | 2 | 0.43 | 1.00 | 1 |
| 10 | 17 | 10 | 293 | 256.2 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 3 |
| 10 | 17 | 10 | 295 | 263.9 | 262.1 | 1.84 | 2 | 2 | 0.70 | 1.02 | 2 |
| 10 | 17 | 10 | 290 | 272.2 | 271.7 | 0.51 | 1 | 8 | 0.19 | 1.11 | 2 |
| 10 | 17 | 10 | 300 | 301.1 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 17 | 10 | 292 | 289.3 | 287.6 | 1.75 | 2 | 2 | 0.60 | 1.15 | 3 |
| 10 | 17 | 10 | 346 | 541.7 | 535.5 | 6.23 | 2 | 8 | 1.15 | 1.29 | 6 |
| 10 | 17 | 10 | 297 | 296.2 | 294.1 | 2.15 | 2 | 2 | 0.73 | 1.12 | 2 |
| 10 | 17 | 10 | 297 | 277.9 | 276.2 | 1.66 | 2 | 2 | 0.60 | 1.05 | 3 |

[1] Total weight - gonad weight

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 17 | 10 | 292 | 273.6 | 273.1 | 0.49 | 1 | 2 | 0.18 | 1.10 | 2 |
| 10 | 17 | 10 | 344 | 470.2 | 466.1 | 4.13 | 2 | 8 | 0.88 | 1.14 | 5 |
| 10 | 17 | 10 | 305 | 316.4 | 314.6 | 1.85 | 2 | 8 | 0.58 | 1.11 | 2 |
| 10 | 17 | 10 | 334 | 421.9 | 418.1 | 3.76 | 2 | 8 | 0.89 | 1.12 | 3 |
| 10 | 17 | 10 | 331 | 455.3 | 451.4 | 3.94 | 2 | 8 | 0.87 | 1.24 | 3 |
| 10 | 17 | 10 | 299 | 315.4 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 17 | 10 | 323 | 389.7 | 388.9 | 0.84 | 1 | 8 | 0.22 | 1.15 | 4 |
| 10 | 17 | 10 | 280 | 253.0 | 251.4 | 1.63 | 2 | 2 | 0.64 | 1.15 | 2 |
| 10 | 17 | 10 | 281 | 225.2 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 17 | 10 | 300 | 284.3 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 3 |
| 10 | 17 | 10 | 341 | 506.6 | 501.8 | 4.84 | 2 | 8 | 0.96 | 1.27 | 3 |
| 10 | 17 | 10 | 292 | 310.4 | 309.9 | 0.53 | 1 | 2 | 0.17 | 1.24 | 2 |
| 10 | 17 | 10 | 289 | 288.7 | 286.5 | 2.20 | 2 | 2 | 0.76 | 1.19 | 2 |
| 10 | 17 | 10 | 304 | 326.8 | 326.4 | 0.36 | 1 | 8 | 0.11 | 1.16 | 2 |
| 10 | 17 | 10 | 296 | 269.9 | 268.2 | 1.70 | 2 | 2 | 0.63 | 1.03 | 3 |
| 10 | 17 | 10 | 279 | 225.8 | 225.5 | 0.27 | 1 | 2 | 0.12 | 1.04 | 2 |
| 10 | 17 | 10 | 301 | 295.2 | 292.9 | 2.26 | 2 | 2 | 0.77 | 1.07 | 2 |
| 10 | 17 | 10 | 288 | 238.8 | 238.4 | 0.36 | 1 | 2 | 0.15 | 1.00 | 2 |
| 10 | 17 | 10 | 320 | 362.6 | 362.2 | 0.42 | 1 | 8 | 0.12 | 1.11 | 3 |
| 10 | 17 | 10 | 289 | 240.4 | 238.4 | 1.99 | 2 | 2 | 0.83 | 0.99 | 2 |
| 10 | 17 | 10 | 311 | 321.0 | 320.4 | 0.59 | 1 | 8 | 0.18 | 1.07 | 2 |
| 10 | 17 | 10 | 290 | 293.8 | 291.7 | 2.08 | 2 | 2 | 0.71 | 1.20 | 2 |
| 10 | 17 | 10 | 332 | 410.0 | 408.9 | 1.11 | 1 | 8 | 0.27 | 1.12 | 3 |
| 10 | 17 | 10 | 297 | 264.5 | 263.9 | 0.58 | 1 | 2 | 0.22 | 1.01 | 2 |
| 10 | 17 | 10 | 292 | 280.8 | 279.1 | 1.71 | 2 | 2 | 0.61 | 1.12 | 3 |
| 10 | 17 | 10 | 312 | 313.6 | 313.1 | 0.52 | 1 | 2 | 0.17 | 1.03 | 2 |
| 10 | 17 | 10 | 306 | 303.7 | 302.0 | 1.74 | 2 | 8 | 0.57 | 1.05 | 2 |
| 10 | 17 | 10 | 303 | 293.6 | 292.2 | 1.39 | 2 | 2 | 0.47 | 1.05 | 2 |
| 10 | 17 | 10 | 345 | 451.4 | 447.6 | 3.85 | 2 | 8 | 0.85 | 1.09 | 4 |
| 10 | 17 | 10 | 320 | 405.5 | 404.7 | 0.81 | 1 | 2 | 0.20 | 1.24 | 3 |
| 10 | 17 | 10 | 301 | 308.0 | 305.6 | 2.41 | 2 | 8 | 0.78 | 1.12 | 3 |
| 10 | 17 | 10 | 324 | 411.5 | 410.8 | 0.70 | 1 | 8 | 0.17 | 1.21 | 3 |
| 10 | 17 | 10 | 287 | 244.0 | 242.4 | 1.60 | 2 | 2 | 0.66 | 1.03 | 2 |
| 10 | 17 | 10 | 310 | 338.8 | 338.2 | 0.58 | 1 | 2 | 0.17 | 1.14 | 2 |
| 10 | 17 | 10 | 315 | 361.6 | 359.4 | 2.23 | 2 | 8 | 0.62 | 1.15 | 4 |
| 10 | 17 | 10 | 377 | 655.8 | 649.7 | 6.11 | 2 | 8 | 0.93 | 1.21 | n.d. |
| 10 | 17 | 10 | 296 | 322.3 | 320.1 | 2.24 | 2 | 8 | 0.70 | 1.23 | 2 |
| 10 | 17 | 10 | 306 | 296.8 | 296.1 | 0.70 | 1 | 2 | 0.24 | 1.03 | 2 |
| 10 | 17 | 10 | 306 | 284.5 | 283.1 | 1.44 | 2 | 2 | 0.51 | 0.99 | 2 |
| 10 | 17 | 10 | 355 | 570.9 | 565.9 | 5.03 | 2 | 8 | 0.88 | 1.26 | 6 |
| 10 | 17 | 10 | 340 | 490.0 | 485.0 | 4.96 | 2 | 8 | 1.01 | 1.23 | 3 |
| 10 | 17 | 10 | 294 | 287.9 | 287.5 | 0.39 | 1 | 2 | 0.14 | 1.13 | 2 |
| 10 | 17 | 10 | 290 | 246.6 | 246.2 | 0.38 | 1 | 2 | 0.15 | 1.01 | 2 |
| 10 | 17 | 10 | 322 | 358.3 | 356.0 | 2.34 | 2 | 8 | 0.65 | 1.07 | 2 |
| 10 | 17 | 10 | 330 | 404.8 | 404.3 | 0.52 | 1 | 8 | 0.13 | 1.12 | 3 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 17 | 10 | 312 | 325.3 | 322.2 | 3.13 | 2 | 8 | 0.96 | 1.06 | 2 |
| 10 | 17 | 10 | 333 | 416.0 | 415.4 | 0.65 | 1 | 8 | 0.16 | 1.12 | 3 |
| 10 | 17 | 10 | 290 | 234.8 | 234.4 | 0.38 | 1 | 2 | 0.16 | 0.96 | 2 |
| 10 | 17 | 10 | 287 | 289.2 | 286.3 | 2.89 | 2 | 2 | 1.00 | 1.21 | 2 |
| 10 | 17 | 10 | 315 | 346.4 | 346.0 | 0.43 | 1 | 8 | 0.12 | 1.11 | 2 |
| 10 | 17 | 10 | 323 | 430.5 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 3 |
| 10 | 17 | 10 | 301 | 317.3 | 316.5 | 0.76 | 1 | 2 | 0.24 | 1.16 | 2 |
| 10 | 17 | 10 | 300 | 314.0 | 313.4 | 0.61 | 1 | 2 | 0.19 | 1.16 | 2 |
| 10 | 17 | 10 | 317 | 384.2 | 381.7 | 2.49 | 2 | 8 | 0.65 | 1.20 | 2 |
| 10 | 17 | 10 | 291 | 251.8 | 251.4 | 0.43 | 1 | 2 | 0.17 | 1.02 | 2 |
| 10 | 17 | 4/0 | 302 | 305.5 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 3 |
| 10 | 17 | 4/0 | 294 | 283.0 | 281.5 | 1.46 | 2 | 2 | 0.52 | 1.11 | 2 |
| 10 | 17 | 4/0 | 308 | 373.9 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 3 |
| 10 | 17 | 4/0 | 297 | 294.4 | 292.8 | 1.56 | 2 | 2 | 0.53 | 1.12 | 2 |
| 10 | 17 | 4/0 | 302 | 336.6 | 334.3 | 2.30 | 2 | 2 | 0.68 | 1.21 | 2 |
| 10 | 17 | 4/0 | 345 | 474.9 | 474.2 | 0.68 | 1 | 8 | 0.14 | 1.15 | 6 |
| 10 | 17 | 4/0 | 280 | 263.7 | 263.3 | 0.39 | 1 | 2 | 0.15 | 1.20 | 2 |
| 10 | 17 | 4/0 | 317 | 389.0 | 385.9 | 3.09 | 2 | 8 | 0.79 | 1.21 | 4 |
| 10 | 17 | 4/0 | 321 | 393.5 | 389.8 | 3.70 | 2 | 8 | 0.94 | 1.18 | 3 |
| 10 | 17 | 4/0 | 343 | 508.1 | 507.6 | 0.55 | 1 | 8 | 0.11 | 1.26 | 6 |
| 10 | 17 | 4/0 | 315 | 354.6 | 354.1 | 0.48 | 1 | 8 | 0.14 | 1.13 | 3 |
| 10 | 17 | 4/0 | 308 | 325.5 | 323.7 | 1.78 | 2 | 2 | 0.55 | 1.11 | 2 |
| 10 | 17 | 4/0 | 359 | 628.9 | 627.5 | 1.40 | 1 | 8 | 0.22 | 1.36 | 6 |
| 10 | 17 | 4/0 | 356 | 594.7 | 589.8 | 4.93 | 2 | 8 | 0.83 | 1.31 | 5 |
| 10 | 17 | 4/0 | 287 | 277.2 | 276.9 | 0.33 | 1 | 2 | 0.12 | 1.17 | 3 |
| 10 | 17 | 4/0 | 325 | 427.7 | 427.1 | 0.63 | 1 | 8 | 0.15 | 1.24 | n.d. |
| 10 | 17 | 4/0 | 316 | 338.3 | 338.1 | 0.21 | 1 | 2 | 0.06 | 1.07 | 3 |
| 10 | 17 | 4/0 | 321 | 386.6 | 385.8 | 0.76 | 1 | 8 | 0.20 | 1.17 | 4 |
| 10 | 17 | 4/0 | 341 | 443.7 | 442.9 | 0.85 | 1 | 8 | 0.19 | 1.12 | 3 |
| 10 | 17 | 4/0 | 289 | 249.1 | 247.2 | 1.95 | 2 | 2 | 0.78 | 1.02 | 2 |
| 10 | 17 | 4/0 | 318 | 373.1 | 371.1 | 2.02 | 2 | 8 | 0.54 | 1.15 | 2 |
| 10 | 17 | 4/0 | 344 | 478.8 | 478.1 | 0.72 | 1 | 8 | 0.15 | 1.17 | 6 |
| 10 | 17 | 4/0 | 349 | 486.1 | 485.2 | 0.91 | 1 | 8 | 0.19 | 1.14 | 6 |
| 10 | 17 | 4/0 | 310 | 362.7 | 359.7 | 2.99 | 2 | 8 | 0.82 | 1.21 | 3 |
| 10 | 17 | 4/0 | 301 | 310.5 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 3 |
| 10 | 17 | 4/0 | 305 | 304.4 | 303.4 | 1.01 | 1 | 2 | 0.33 | 1.07 | 2 |
| 10 | 17 | 4/0 | 318 | 402.3 | 401.6 | 0.73 | 1 | 8 | 0.18 | 1.25 | 3 |
| 10 | 17 | 4/0 | 309 | 330.4 | 328.0 | 2.38 | 2 | 8 | 0.72 | 1.11 | 3 |
| 10 | 17 | 4/0 | 295 | 314.4 | 313.8 | 0.57 | 1 | 2 | 0.18 | 1.22 | 2 |
| 10 | 17 | 4/0 | 332 | 457.7 | 456.7 | 1.03 | 1 | 8 | 0.23 | 1.25 | 3 |
| 10 | 17 | 4/0 | 311 | 345.5 | 343.6 | 1.92 | 2 | 8 | 0.56 | 1.14 | 3 |
| 10 | 17 | 4/0 | 310 | 341.4 | 338.9 | 2.51 | 2 | 8 | 0.74 | 1.14 | 2 |
| 10 | 17 | 4/0 | 296 | 270.8 | 270.4 | 0.36 | 1 | 2 | 0.13 | 1.04 | 2 |
| 10 | 17 | 4/0 | 307 | 342.3 | 341.8 | 0.54 | 1 | 8 | 0.16 | 1.18 | 2 |
| 10 | 17 | 4/0 | 292 | 281.8 | 280.1 | 1.73 | 2 | 2 | 0.61 | 1.12 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) Total | Somatic | Gonad | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 17 | 4/0 | 283 | 250.2 | 248.5 | 1.68 | 2 | 2 | 0.67 | 1.10 | 2 |
| 10 | 17 | 4/0 | 277 | 225.5 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 2 |
| 10 | 17 | 4/0 | 361 | 575.2 | 574.1 | 1.15 | 1 | 8 | 0.20 | 1.22 | 4 |
| 10 | 17 | 4/0 | 322 | 421.1 | 420.1 | 1.02 | 1 | 8 | 0.24 | 1.26 | 3 |
| 10 | 17 | 4/0 | 349 | 512.3 | 511.1 | 1.21 | 1 | 8 | 0.24 | 1.20 | 6 |
| 10 | 17 | 4/0 | 291 | 293.2 | 292.8 | 0.36 | 1 | 2 | 0.12 | 1.19 | 3 |
| 10 | 17 | 4/0 | 333 | 422.9 | 422.3 | 0.63 | 1 | 8 | 0.15 | 1.14 | 4 |
| 10 | 17 | 4/0 | 355 | 595.4 | 589.6 | 5.82 | 2 | 8 | 0.98 | 1.32 | 4 |
| 10 | 17 | 4/0 | 289 | 278.9 | 278.5 | 0.40 | 1 | 2 | 0.14 | 1.15 | 2 |
| 10 | 17 | 4/0 | 287 | 260.4 | 259.9 | 0.50 | 1 | 2 | 0.19 | 1.10 | 2 |
| 10 | 17 | 4/0 | 300 | 309.2 | 307.3 | 1.93 | 2 | 2 | 0.62 | 1.14 | 2 |
| 10 | 17 | 4/0 | 306 | 350.2 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 17 | 4/0 | 355 | 540.3 | 535.1 | 5.24 | 2 | 8 | 0.97 | 1.20 | 6 |
| 10 | 17 | 4/0 | 325 | 412.9 | 412.2 | 0.74 | 1 | 8 | 0.18 | 1.20 | 4 |
| 10 | 17 | 4/0 | 306 | 383.5 | 380.3 | 3.23 | 2 | 2 | 0.84 | 1.33 | 3 |
| 10 | 17 | 4/0 | 303 | 315.1 | 313.0 | 2.15 | 2 | 2 | 0.68 | 1.12 | 2 |
| 10 | 17 | 4/0 | 281 | 234.7 | 232.8 | 1.88 | 2 | 2 | 0.80 | 1.05 | 2 |
| 10 | 17 | 4/0 | 306 | 344.8 | 343.4 | 1.42 | 2 | 2 | 0.41 | 1.20 | 2 |
| 10 | 17 | 4/0 | 302 | 311.2 | 310.5 | 0.67 | 1 | 2 | 0.22 | 1.13 | 2 |
| 10 | 17 | 4/0 | 291 | 278.1 | 277.7 | 0.37 | 1 | 2 | 0.13 | 1.13 | 3 |
| 10 | 17 | 4/0 | 290 | 286.6 | 283.9 | 2.71 | 2 | 2 | 0.95 | 1.16 | 3 |
| 10 | 17 | 4/0 | 350 | 566.8 | 565.6 | 1.17 | 1 | 8 | 0.21 | 1.32 | 5 |
| 10 | 17 | 4/0 | 313 | 396.4 | 395.8 | 0.57 | 1 | 2 | 0.14 | 1.29 | 3 |
| 10 | 17 | 4/0 | 340 | 472.7 | 469.1 | 3.58 | 2 | 8 | 0.76 | 1.19 | 3 |
| 10 | 17 | 4/0 | 280 | 235.6 | 235.3 | 0.28 | 1 | 2 | 0.12 | 1.07 | 2 |
| 10 | 17 | 4/0 | 285 | 253.8 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 17 | 4/0 | 294 | 274.9 | 273.4 | 1.52 | 2 | 2 | 0.55 | 1.08 | 2 |
| 10 | 17 | 4/0 | 297 | 327.7 | 326.9 | 0.78 | 1 | 2 | 0.24 | 1.25 | 2 |
| 10 | 17 | 4/0 | 342 | 471.5 | 466.8 | 4.69 | 2 | 8 | 0.99 | 1.17 | 3 |
| 10 | 17 | 4/0 | 359 | 517.7 | 512.0 | 5.74 | 2 | 8 | 1.11 | 1.11 | 6 |
| 10 | 17 | 4/0 | 307 | 335.0 | 332.4 | 2.56 | 2 | 8 | 0.76 | 1.15 | 4 |
| 10 | 17 | 4/0 | 330 | 407.2 | 404.2 | 3.05 | 2 | 8 | 0.75 | 1.12 | 3 |
| 10 | 17 | 4/0 | 299 | 299.4 | 298.9 | 0.54 | 1 | 2 | 0.18 | 1.12 | 2 |
| 10 | 17 | 4/0 | 277 | 242.6 | 242.2 | 0.39 | 1 | 2 | 0.16 | 1.14 | 2 |
| 10 | 17 | 4/0 | 301 | 316.9 | 316.2 | 0.69 | 1 | 2 | 0.22 | 1.16 | 2 |
| 10 | 17 | 4/0 | 293 | 293.6 | 293.1 | 0.52 | 1 | 2 | 0.18 | 1.17 | 2 |
| 10 | 17 | 4/0 | 302 | 330.6 | 330.1 | 0.50 | 1 | 2 | 0.15 | 1.20 | 2 |
| 10 | 17 | 4/0 | 358 | 527.7 | 526.6 | 1.07 | 1 | 8 | 0.20 | 1.15 | 6 |
| 10 | 17 | 4/0 | 347 | 539.4 | 538.1 | 1.27 | 1 | 8 | 0.24 | 1.29 | 6 |
| 10 | 17 | 4/0 | 286 | 265.6 | 263.8 | 1.81 | 2 | 2 | 0.68 | 1.13 | 2 |
| 10 | 17 | 4/0 | 305 | 315.8 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 17 | 4/0 | 312 | 363.9 | 361.9 | 2.05 | 2 | 2 | 0.56 | 1.19 | 2 |
| 10 | 17 | 4/0 | 308 | 355.5 | 354.4 | 1.10 | 1 | 2 | 0.31 | 1.21 | 2 |
| 10 | 17 | 4/0 | 326 | 416.2 | 415.6 | 0.59 | 1 | 8 | 0.14 | 1.20 | 3 |
| 10 | 17 | 4/0 | 308 | 324.6 | 322.7 | 1.91 | 2 | 8 | 0.59 | 1.10 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 17 | 4/0 | 287 | 275.2 | 273.5 | 1.67 | 2 | 2 | 0.61 | 1.16 | 2 |
| 10 | 17 | 4/0 | 309 | 314.3 | 312.1 | 2.17 | 2 | 2 | 0.69 | 1.06 | 2 |
| 10 | 17 | 4/0 | 350 | 534.3 | 532.8 | 1.48 | 1 | 8 | 0.28 | 1.24 | 4 |
| 10 | 17 | 4/0 | 294 | 273.7 | 273.2 | 0.46 | 1 | 2 | 0.17 | 1.08 | 2 |
| 10 | 17 | 4/0 | 332 | 431.7 | 427.2 | 4.48 | 2 | 8 | 1.04 | 1.17 | 4 |
| 10 | 17 | 4/0 | 322 | 380.9 | 380.1 | 0.84 | 1 | 8 | 0.22 | 1.14 | 3 |
| 10 | 17 | 4/0 | 275 | 250.6 | 250.3 | 0.34 | 1 | 2 | 0.14 | 1.20 | 2 |
| 10 | 17 | 4/0 | 329 | 392.0 | 391.4 | 0.63 | 1 | 8 | 0.16 | 1.10 | 2 |
| 10 | 17 | 4/0 | 294 | 289.6 | 287.3 | 2.31 | 2 | 2 | 0.80 | 1.13 | 2 |
| 10 | 17 | 4/0 | 311 | 351.8 | 349.4 | 2.37 | 2 | 8 | 0.67 | 1.16 | 3 |
| 10 | 17 | 4/0 | 304 | 354.5 | 353.9 | 0.60 | 1 | 8 | 0.17 | 1.26 | 3 |
| 10 | 17 | 4/0 | 325 | 370.6 | 369.7 | 0.88 | 1 | 8 | 0.24 | 1.08 | 3 |
| 10 | 17 | 4/0 | 280 | 216.9 | 216.7 | 0.21 | 1 | 2 | 0.10 | 0.99 | 2 |
| 10 | 17 | 4/0 | 310 | 320.7 | 318.0 | 2.67 | 2 | 2 | 0.83 | 1.07 | 2 |
| 10 | 17 | 4/0 | 262 | 228.2 | 227.1 | 1.09 | 2 | 2 | 0.48 | 1.26 | 1 |
| 10 | 17 | 4/0 | 313 | 350.2 | 349.5 | 0.74 | 1 | 8 | 0.21 | 1.14 | 3 |
| 10 | 17 | 4/0 | 365 | 470.3 | 466.3 | 3.97 | 2 | 8 | 0.84 | 0.96 | 6 |
| 10 | 17 | 4/0 | 352 | 551.0 | 545.3 | 5.71 | 2 | 8 | 1.04 | 1.25 | 6 |
| 10 | 17 | 4/0 | 277 | 225.2 | 224.5 | 0.71 | 1 | 2 | 0.32 | 1.06 | 2 |
| 10 | 17 | 4/0 | 334 | 459.2 | 454.4 | 4.85 | 2 | 8 | 1.06 | 1.22 | 3 |
| 10 | 18 | 4/0 | 281 | 243.0 | 241.8 | 1.16 | 2 | 2 | 0.48 | 1.09 | 2 |
| 10 | 18 | 4/0 | 252 | 169.9 | 169.2 | 0.73 | 2 | 2 | 0.43 | 1.06 | 1 |
| 10 | 18 | 4/0 | 313 | 328.6 | 327.0 | 1.59 | 2 | 8 | 0.48 | 1.07 | 2 |
| 10 | 18 | 4/0 | 329 | 395.1 | 393.9 | 1.19 | 1 | 8 | 0.30 | 1.11 | 3 |
| 10 | 18 | 4/0 | 292 | 278.1 | 277.9 | 0.22 | 1 | 2 | 0.08 | 1.12 | 2 |
| 10 | 18 | 4/0 | 287 | 255.1 | 253.9 | 1.18 | 2 | 8 | 0.46 | 1.07 | 2 |
| 10 | 18 | 4/0 | 305 | 334.3 | 333.9 | 0.43 | 1 | 8 | 0.13 | 1.18 | n.d. |
| 10 | 18 | 4/0 | 299 | 294.2 | 293.5 | 0.66 | 1 | 2 | 0.22 | 1.10 | 2 |
| 10 | 18 | 4/0 | 267 | 208.1 | 207.8 | 0.33 | 1 | 2 | 0.16 | 1.09 | 1 |
| 10 | 18 | 4/0 | 285 | 253.8 | 253.3 | 0.53 | 1 | 2 | 0.21 | 1.09 | 2 |
| 10 | 18 | 4/0 | 307 | 285.6 | 283.6 | 2.05 | 2 | 8 | 0.72 | 0.98 | 2 |
| 10 | 18 | 4/0 | 366 | 588.8 | 587.4 | 1.37 | 1 | 8 | 0.23 | 1.20 | 6 |
| 10 | 18 | 4/0 | 297 | 269.8 | 268.4 | 1.44 | 2 | 8 | 0.53 | 1.02 | 2 |
| 10 | 18 | 4/0 | 300 | 313.2 | 312.9 | 0.32 | 1 | 2 | 0.10 | 1.16 | 3 |
| 10 | 18 | 4/0 | 296 | 279.7 | 277.5 | 2.22 | 2 | 8 | 0.79 | 1.07 | 2 |
| 10 | 18 | 4/0 | 290 | 291.2 | 290.4 | 0.80 | 1 | 2 | 0.27 | 1.19 | 3 |
| 10 | 18 | 4/0 | 290 | 252.0 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 18 | 4/0 | 303 | 335.7 | 335.1 | 0.62 | 1 | 2 | 0.18 | 1.20 | 2 |
| 10 | 18 | 4/0 | 296 | 314.1 | 313.6 | 0.46 | 1 | 8 | 0.15 | 1.21 | 2 |
| 10 | 18 | 4/0 | 292 | 276.7 | 276.3 | 0.39 | 1 | 2 | 0.14 | 1.11 | 2 |
| 10 | 18 | 4/0 | 292 | 276.0 | 275.8 | 0.16 | 1 | 2 | 0.06 | 1.11 | 2 |
| 10 | 18 | 4/0 | 335 | 452.2 | 448.4 | 3.81 | 2 | 8 | 0.84 | 1.19 | 3 |
| 10 | 18 | 4/0 | 267 | 184.2 | 183.6 | 0.60 | 2 | 2 | 0.33 | 0.96 | 1 |
| 10 | 18 | 4/0 | 316 | 357.0 | 353.3 | 3.69 | 2 | 8 | 1.03 | 1.12 | 2 |
| 10 | 18 | 4/0 | 297 | 266.1 | 264.4 | 1.73 | 2 | 8 | 0.65 | 1.01 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 18 | 4/0 | 352 | 560.1 | 555.1 | 5.05 | 2 | 8 | 0.90 | 1.27 | 6 |
| 10 | 18 | 4/0 | 293 | 231.4 | 229.8 | 1.57 | 2 | 2 | 0.68 | 0.91 | 2 |
| 10 | 18 | 4/0 | 318 | 411.4 | 408.2 | 3.19 | 2 | 8 | 0.78 | 1.27 | 4 |
| 10 | 18 | 4/0 | 306 | 308.0 | 306.0 | 2.01 | 2 | 8 | 0.65 | 1.07 | 2 |
| 10 | 18 | 4/0 | 295 | 262.0 | 260.4 | 1.61 | 2 | 8 | 0.61 | 1.01 | 2 |
| 10 | 18 | 4/0 | 289 | 289.0 | 287.6 | 1.42 | 2 | 2 | 0.49 | 1.19 | 2 |
| 10 | 18 | 4/0 | 326 | 440.1 | 437.0 | 3.14 | 2 | 8 | 0.71 | 1.26 | 3 |
| 10 | 18 | 4/0 | 305 | 316.9 | 315.0 | 1.90 | 2 | 8 | 0.60 | 1.11 | 2 |
| 10 | 18 | 4/0 | 348 | 520.3 | 519.4 | 0.90 | 1 | 8 | 0.17 | 1.23 | 4 |
| 10 | 18 | 4/0 | 311 | 328.0 | 325.8 | 2.23 | 2 | 8 | 0.68 | 1.08 | 3 |
| 10 | 18 | 4/0 | 290 | 240.7 | 240.3 | 0.40 | 1 | 2 | 0.17 | 0.99 | 2 |
| 10 | 18 | 4/0 | 296 | 289.2 | 287.0 | 2.16 | 2 | 8 | 0.75 | 1.11 | 2 |
| 10 | 18 | 4/0 | 367 | 559.7 | 553.7 | 6.03 | 2 | 8 | 1.08 | 1.12 | 6 |
| 10 | 18 | 4/0 | 284 | 250.5 | 248.9 | 1.62 | 2 | 2 | 0.65 | 1.09 | 2 |
| 10 | 18 | 4/0 | 296 | 288.0 | 287.5 | 0.47 | 1 | 2 | 0.16 | 1.11 | 2 |
| 10 | 18 | 4/0 | 186 | 159.1 | 156.7 | 2.45 | 2 | 2 | 1.54 | 2.43 | 2 |
| 10 | 18 | 4/0 | 300 | 299.0 | 297.5 | 1.48 | 2 | 8 | 0.49 | 1.10 | 3 |
| 10 | 18 | 4/0 | 270 | 203.4 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 1 |
| 10 | 18 | 4/0 | 292 | 287.5 | 285.9 | 1.57 | 2 | 2 | 0.55 | 1.15 | 3 |
| 10 | 18 | 4/0 | 301 | 311.3 | 310.5 | 0.79 | 1 | 2 | 0.25 | 1.14 | 3 |
| 10 | 18 | 4/0 | 307 | 343.3 | 340.7 | 2.61 | 2 | 8 | 0.76 | 1.18 | 2 |
| 10 | 18 | 4/0 | 295 | 329.1 | 327.1 | 2.04 | 2 | 8 | 0.62 | 1.27 | 2 |
| 10 | 18 | 4/0 | 292 | 295.0 | 293.1 | 1.86 | 2 | 2 | 0.63 | 1.18 | 2 |
| 10 | 18 | 4/0 | 281 | 275.7 | 273.9 | 1.85 | 2 | 2 | 0.67 | 1.23 | 2 |
| 10 | 18 | 4/0 | 303 | 305.0 | 302.7 | 2.26 | 2 | 8 | 0.74 | 1.09 | 2 |
| 10 | 18 | 4/0 | 356 | 546.8 | 541.2 | 5.60 | 2 | 8 | 1.02 | 1.20 | 6 |
| 10 | 18 | 4/0 | 297 | 293.8 | 293.3 | 0.47 | 1 | 2 | 0.16 | 1.12 | 2 |
| 10 | 18 | 4/0 | 344 | 470.5 | 465.9 | 4.65 | 2 | 8 | 0.99 | 1.14 | 6 |
| 10 | 18 | 4/0 | 289 | 269.1 | 267.7 | 1.42 | 2 | 2 | 0.53 | 1.11 | 2 |
| 10 | 18 | 4/0 | 302 | 299.4 | 298.8 | 0.61 | 1 | 2 | 0.20 | 1.08 | 2 |
| 10 | 18 | 4/0 | 327 | 402.3 | 401.9 | 0.38 | 1 | 8 | 0.09 | 1.15 | 3 |
| 10 | 18 | 4/0 | 300 | 322.2 | 319.8 | 2.41 | 2 | 8 | 0.75 | 1.18 | 2 |
| 10 | 18 | 4/0 | 262 | 174.9 | 174.7 | 0.24 | 1 | 2 | 0.14 | 0.97 | 1 |
| 10 | 18 | 4/0 | 307 | 333.2 | 331.0 | 2.18 | 2 | 8 | 0.65 | 1.14 | 3 |
| 10 | 18 | 4/0 | 271 | 244.6 | 243.9 | 0.69 | 1 | 2 | 0.28 | 1.23 | 2 |
| 10 | 18 | 4/0 | 285 | 272.4 | 271.9 | 0.48 | 1 | 2 | 0.18 | 1.17 | 2 |
| 10 | 18 | 4/0 | 299 | 273.9 | 273.5 | 0.43 | 1 | 2 | 0.16 | 1.02 | 2 |
| 10 | 18 | 4/0 | 314 | 322.2 | 318.6 | 3.57 | 2 | 8 | 1.11 | 1.03 | 3 |
| 10 | 18 | 4/0 | 360 | 551.3 | 546.2 | 5.11 | 2 | 8 | 0.93 | 1.17 | 6 |
| 10 | 18 | 4/0 | 333 | 435.2 | 430.1 | 5.15 | 2 | 8 | 1.18 | 1.16 | 4 |
| 10 | 18 | 4/0 | 314 | 333.4 | 332.3 | 1.11 | 1 | 8 | 0.33 | 1.07 | 3 |
| 10 | 18 | 4/0 | 336 | 458.4 | 457.1 | 1.26 | 1 | 8 | 0.27 | 1.21 | 7 |
| 10 | 18 | 4/0 | 310 | 272.0 | 270.3 | 1.73 | 2 | 2 | 0.64 | 0.91 | 2 |
| 10 | 18 | 4/0 | 292 | 271.2 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 18 | 4/0 | 285 | 274.8 | 273.4 | 1.37 | 2 | 2 | 0.50 | 1.18 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 18 | 4/0 | 299 | 309.2 | 307.2 | 1.96 | 2 | 2 | 0.63 | 1.15 | 2 |
| 10 | 18 | 4/0 | 300 | 299.1 | 296.8 | 2.32 | 2 | 2 | 0.78 | 1.10 | 2 |
| 10 | 18 | 4/0 | 306 | 308.9 | 308.5 | 0.37 | 1 | 2 | 0.12 | 1.08 | 2 |
| 10 | 18 | 4/0 | 308 | 328.1 | 327.6 | 0.48 | 1 | 2 | 0.15 | 1.12 | 2 |
| 10 | 18 | 4/0 | 331 | 397.1 | 394.1 | 2.97 | 2 | 8 | 0.75 | 1.09 | 4 |
| 10 | 18 | 4/0 | 300 | 269.3 | 269.0 | 0.30 | 1 | 2 | 0.11 | 1.00 | 2 |
| 10 | 18 | 4/0 | 295 | 276.1 | 274.6 | 1.54 | 2 | 2 | 0.56 | 1.07 | 2 |
| 10 | 18 | 4/0 | 303 | 330.2 | 329.6 | 0.57 | 1 | 2 | 0.17 | 1.18 | 2 |
| 10 | 18 | 4/0 | 300 | 331.0 | 330.5 | 0.49 | 1 | 2 | 0.15 | 1.22 | 2 |
| 10 | 18 | 4/0 | 298 | 272.4 | 270.8 | 1.63 | 2 | 2 | 0.60 | 1.02 | 2 |
| 10 | 18 | 4/0 | 285 | 249.0 | 246.6 | 2.37 | 2 | 2 | 0.95 | 1.07 | 2 |
| 10 | 18 | 4/0 | 325 | 401.8 | 397.9 | 3.95 | 2 | 2 | 0.98 | 1.16 | 4 |
| 10 | 18 | 4/0 | 290 | 250.2 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 18 | 4/0 | 311 | 143.1 | 140.4 | 2.68 | 2 | 2 | 1.87 | 0.47 | n.d. |
| 10 | 18 | 4/0 | 300 | 301.9 | 300.3 | 1.58 | 2 | 2 | 0.52 | 1.11 | 2 |
| 10 | 18 | 4/0 | 345 | 456.6 | 455.6 | 1.04 | 1 | 8 | 0.23 | 1.11 | 6 |
| 10 | 18 | 4/0 | 366 | 615.0 | 609.1 | 5.87 | 2 | 8 | 0.95 | 1.24 | 6 |
| 10 | 18 | 4/0 | 298 | 300.2 | 299.6 | 0.62 | 1 | 2 | 0.21 | 1.13 | 3 |
| 10 | 18 | 4/0 | 328 | 413.2 | 409.7 | 3.53 | 2 | 8 | 0.85 | 1.16 | 3 |
| 10 | 18 | 4/0 | 302 | 332.2 | 331.6 | 0.65 | 1 | 2 | 0.20 | 1.20 | 2 |
| 10 | 18 | 4/0 | 347 | 464.5 | 463.4 | 1.15 | 1 | 8 | 0.25 | 1.11 | 6 |
| 10 | 18 | 4/0 | 281 | 263.7 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 18 | 4/0 | 350 | 520.7 | 519.0 | 1.73 | 1 | 8 | 0.33 | 1.21 | 6 |
| 10 | 18 | 4/0 | 322 | 395.5 | 392.6 | 2.88 | 1 | 8 | 0.73 | 1.18 | 3 |
| 10 | 18 | 4/0 | 304 | 277.9 | 277.4 | 0.48 | 1 | 2 | 0.17 | 0.99 | 2 |
| 10 | 18 | 4/0 | 306 | 315.1 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 2 |
| 10 | 18 | 4/0 | 398 | 272.7 | 270.8 | 1.92 | 2 | 2 | 0.70 | 0.43 | 2 |
| 10 | 18 | 4/0 | 296 | 307.0 | 304.4 | 2.63 | 2 | 2 | 0.86 | 1.17 | 2 |
| 10 | 18 | 4/0 | 312 | 325.3 | 322.9 | 2.44 | 2 | 8 | 0.75 | 1.06 | 3 |
| 10 | 18 | 4/0 | 296 | 304.5 | 304.0 | 0.49 | 1 | 2 | 0.16 | 1.17 | 2 |
| 10 | 18 | 10 | 294 | 295.8 | 295.4 | 0.39 | 1 | 2 | 0.13 | 1.16 | 3 |
| 10 | 18 | 10 | 270 | 198.0 | 197.7 | 0.30 | 1 | 2 | 0.15 | 1.00 | 1 |
| 10 | 18 | 10 | 293 | 256.0 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 18 | 10 | 303 | 336.0 | 333.5 | 2.49 | 2 | 8 | 0.74 | 1.20 | 2 |
| 10 | 18 | 10 | 308 | 336.5 | 336.0 | 0.48 | 1 | 8 | 0.14 | 1.15 | 3 |
| 10 | 18 | 10 | 302 | 297.1 | 295.9 | 1.19 | 2 | 2 | 0.40 | 1.07 | 2 |
| 10 | 18 | 10 | 304 | 317.3 | 316.8 | 0.53 | 1 | 8 | 0.17 | 1.13 | 2 |
| 10 | 18 | 10 | 310 | 333.6 | 331.4 | 2.19 | 2 | 8 | 0.66 | 1.11 | 2 |
| 10 | 18 | 10 | 299 | 280.2 | 279.9 | 0.28 | 1 | 2 | 0.10 | 1.05 | 2 |
| 10 | 18 | 10 | 286 | 258.7 | 258.3 | 0.45 | 1 | 2 | 0.17 | 1.10 | 2 |
| 10 | 18 | 10 | 295 | 248.1 | 245.8 | 2.30 | 2 | 2 | 0.93 | 0.96 | 2 |
| 10 | 18 | 10 | 297 | 308.2 | 307.7 | 0.55 | 1 | 2 | 0.18 | 1.17 | 2 |
| 10 | 18 | 10 | 312 | 369.7 | 369.1 | 0.63 | 1 | 8 | 0.17 | 1.22 | 2 |
| 10 | 18 | 10 | 364 | 563.7 | 557.4 | 6.32 | 2 | 8 | 1.12 | 1.16 | 6 |
| 10 | 18 | 10 | 286 | 259.7 | 259.2 | 0.48 | 1 | 8 | 0.18 | 1.11 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 18 | 1/0 | 327 | 427.3 | 424.9 | 2.44 | 2 | 8 | 0.57 | 1.22 | 2 |
| 10 | 18 | 1/0 | 292 | 313.3 | 312.9 | 0.44 | 1 | 2 | 0.14 | 1.26 | 2 |
| 10 | 18 | 1/0 | 365 | 543.1 | 541.6 | 1.55 | 1 | 8 | 0.29 | 1.11 | 8 |
| 10 | 18 | 1/0 | 330 | 488.0 | 486.4 | 1.57 | 1 | 8 | 0.32 | 1.35 | 6 |
| 10 | 18 | 1/0 | 310 | 361.1 | 360.5 | 0.62 | 1 | 8 | 0.17 | 1.21 | 2 |
| 10 | 18 | 1/0 | 293 | 289.1 | 286.9 | 2.18 | 2 | 8 | 0.75 | 1.14 | 2 |
| 10 | 18 | 1/0 | 296 | 297.5 | 294.9 | 2.60 | 2 | 8 | 0.87 | 1.14 | 3 |
| 10 | 18 | 1/0 | 328 | 430.0 | 425.9 | 4.14 | 2 | 8 | 0.96 | 1.21 | 3 |
| 10 | 18 | 1/0 | 299 | 278.4 | 276.5 | 1.92 | 2 | 2 | 0.69 | 1.03 | 2 |
| 10 | 18 | 1/0 | 305 | 308.8 | 307.1 | 1.74 | 2 | 8 | 0.56 | 1.08 | 2 |
| 10 | 18 | 1/0 | 287 | 272.7 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 18 | 1/0 | 310 | 303.3 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 18 | 1/0 | 312 | 364.3 | 363.7 | 0.56 | 1 | 8 | 0.15 | 1.20 | 3 |
| 10 | 18 | 1/0 | 342 | 451.9 | 450.6 | 1.27 | 1 | 8 | 0.28 | 1.13 | 5 |
| 10 | 18 | 1/0 | 349 | 535.9 | 534.7 | 1.17 | 1 | 8 | 0.22 | 1.26 | 6 |
| 10 | 18 | 1/0 | 296 | 289.8 | 289.6 | 0.18 | 1 | 2 | 0.06 | 1.12 | 2 |
| 10 | 18 | 1/0 | 291 | 274.3 | 273.8 | 0.51 | 1 | 2 | 0.19 | 1.11 | 2 |
| 10 | 18 | 1/0 | 305 | 269.2 | 268.9 | 0.35 | 1 | 8 | 0.13 | 0.95 | 2 |
| 10 | 18 | 1/0 | 297 | 297.6 | 297.2 | 0.45 | 1 | 8 | 0.15 | 1.13 | 2 |
| 10 | 18 | 1/0 | 320 | 372.3 | 369.2 | 3.07 | 2 | 8 | 0.82 | 1.13 | 4 |
| 10 | 18 | 1/0 | 333 | 432.0 | 428.4 | 3.56 | 2 | 8 | 0.82 | 1.16 | 4 |
| 10 | 18 | 1/0 | 332 | 474.4 | 473.6 | 0.85 | 1 | 8 | 0.18 | 1.29 | 5 |
| 10 | 18 | 1/0 | 362 | 571.9 | 564.5 | 7.36 | 2 | 8 | 1.29 | 1.19 | 6 |
| 10 | 18 | 1/0 | 345 | 510.8 | 509.6 | 1.19 | 1 | 8 | 0.23 | 1.24 | 6 |
| 10 | 18 | 1/0 | 297 | 297.0 | 296.5 | 0.46 | 1 | 8 | 0.15 | 1.13 | 2 |
| 10 | 18 | 1/0 | 298 | 325.8 | 325.2 | 0.62 | 1 | 8 | 0.19 | 1.23 | 2 |
| 10 | 18 | 1/0 | 307 | 339.7 | 337.0 | 2.70 | 2 | 8 | 0.79 | 1.16 | 2 |
| 10 | 18 | 1/0 | 293 | 280.5 | 279.0 | 1.55 | 2 | 2 | 0.55 | 1.11 | 2 |
| 10 | 18 | 1/0 | 318 | 382.1 | 381.5 | 0.65 | 1 | 8 | 0.17 | 1.19 | 4 |
| 10 | 18 | 1/0 | 347 | 533.8 | 528.6 | 5.22 | 2 | 8 | 0.98 | 1.27 | 6 |
| 10 | 18 | 1/0 | 317 | 352.8 | 352.3 | 0.50 | 1 | 8 | 0.14 | 1.11 | 3 |
| 10 | 18 | 1/0 | 294 | 286.7 | 286.4 | 0.27 | 1 | 2 | 0.09 | 1.13 | 2 |
| 10 | 18 | 1/0 | 365 | 534.0 | 532.8 | 1.24 | 1 | 8 | 0.23 | 1.10 | 6 |
| 10 | 18 | 1/0 | 297 | 294.2 | 293.8 | 0.44 | 1 | 2 | 0.15 | 1.12 | 2 |
| 10 | 18 | 1/0 | 336 | 401.0 | 396.3 | 4.73 | 2 | 8 | 1.18 | 1.04 | 3 |
| 10 | 18 | 1/0 | 299 | 283.1 | 281.7 | 1.39 | 2 | 2 | 0.49 | 1.05 | 2 |
| 10 | 18 | 1/0 | 306 | 320.9 | 318.9 | 2.00 | 2 | 8 | 0.62 | 1.11 | 2 |
| 10 | 18 | 1/0 | 303 | 293.9 | 291.9 | 1.96 | 2 | 8 | 0.67 | 1.05 | 2 |
| 10 | 18 | 1/0 | 301 | 298.1 | 297.6 | 0.49 | 1 | 2 | 0.16 | 1.09 | 2 |
| 10 | 18 | 1/0 | 297 | 281.0 | 280.7 | 0.32 | 1 | 2 | 0.11 | 1.07 | 2 |
| 10 | 18 | 1/0 | 300 | 344.7 | 343.8 | 0.93 | 1 | 8 | 0.27 | 1.27 | 2 |
| 10 | 18 | 1/0 | 316 | 341.6 | 341.2 | 0.45 | 1 | 8 | 0.13 | 1.08 | 3 |
| 10 | 18 | 1/0 | 316 | 356.2 | 353.2 | 2.96 | 2 | 8 | 0.83 | 1.12 | 3 |
| 10 | 18 | 1/0 | 295 | 274.4 | 274.1 | 0.28 | 1 | 2 | 0.10 | 1.07 | 2 |
| 10 | 18 | 1/0 | 326 | 424.4 | 423.5 | 0.91 | 1 | 8 | 0.21 | 1.22 | 3 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 18 | 10 | 300 | 302.0 | 301.6 | 0.39 | 1 | 8 | 0.13 | 1.12 | 2 |
| 10 | 18 | 10 | 308 | 325.4 | 324.9 | 0.55 | 1 | 8 | 0.17 | 1.11 | 2 |
| 10 | 18 | 10 | 311 | 337.6 | 335.1 | 2.53 | 2 | 8 | 0.75 | 1.11 | 2 |
| 10 | 18 | 10 | 294 | 275.6 | 273.4 | 2.24 | 2 | 8 | 0.81 | 1.08 | 2 |
| 10 | 18 | 10 | 326 | 383.2 | 379.5 | 3.73 | 2 | 8 | 0.97 | 1.10 | 3 |
| 10 | 18 | 10 | 298 | 304.9 | 303.1 | 1.81 | 2 | 8 | 0.59 | 1.15 | 3 |
| 10 | 18 | 10 | 290 | 276.4 | 274.0 | 2.39 | 2 | 2 | 0.86 | 1.12 | 2 |
| 10 | 18 | 10 | 283 | 250.4 | 248.6 | 1.82 | 2 | 2 | 0.73 | 1.10 | 2 |
| 10 | 18 | 10 | 295 | 269.5 | 269.0 | 0.48 | 1 | 2 | 0.18 | 1.05 | 2 |
| 10 | 18 | 10 | 329 | 457.7 | 456.8 | 0.92 | 1 | 8 | 0.20 | 1.28 | 3 |
| 10 | 18 | 10 | 303 | 314.7 | 314.2 | 0.47 | 1 | 2 | 0.15 | 1.13 | 2 |
| 10 | 18 | 10 | 302 | 308.6 | 306.5 | 2.08 | 2 | 2 | 0.67 | 1.11 | 2 |
| 10 | 18 | 10 | 290 | 294.4 | 294.0 | 0.38 | 1 | 2 | 0.13 | 1.21 | 2 |
| 10 | 18 | 10 | 300 | 291.1 | 290.8 | 0.32 | 1 | 2 | 0.11 | 1.08 | 2 |
| 10 | 18 | 10 | 286 | 268.8 | 268.3 | 0.48 | 1 | 2 | 0.18 | 1.15 | 2 |
| 10 | 18 | 10 | 297 | 291.3 | 290.6 | 0.71 | 1 | 2 | 0.24 | 1.11 | 3 |
| 10 | 18 | 10 | 299 | 313.4 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 18 | 10 | 321 | 380.0 | 377.3 | 2.73 | 2 | 2 | 0.72 | 1.14 | 3 |
| 10 | 18 | 10 | 298 | 303.1 | 301.0 | 2.15 | 2 | 2 | 0.71 | 1.14 | 2 |
| 10 | 18 | 10 | 347 | 495.7 | 494.4 | 1.26 | 1 | 8 | 0.25 | 1.18 | 7 |
| 10 | 18 | 10 | 323 | 412.9 | 411.3 | 1.57 | 1 | 8 | 0.38 | 1.22 | 4 |
| 10 | 18 | 10 | 308 | 355.3 | 354.6 | 0.66 | 1 | 8 | 0.19 | 1.21 | 3 |
| 10 | 18 | 10 | 305 | 348.9 | 346.7 | 2.24 | 2 | 2 | 0.64 | 1.22 | 2 |
| 10 | 18 | 10 | 311 | 340.2 | 339.4 | 0.78 | 1 | 2 | 0.23 | 1.13 | 2 |
| 10 | 18 | 10 | 324 | 426.0 | 422.4 | 3.59 | 2 | 8 | 0.84 | 1.24 | 3 |
| 10 | 18 | 10 | 300 | 327.1 | 324.7 | 2.45 | 2 | 2 | 0.75 | 1.20 | 2 |
| 10 | 18 | 10 | 280 | 264.7 | 262.7 | 2.02 | 2 | 2 | 0.76 | 1.20 | 2 |
| 10 | 18 | 10 | 342 | 509.5 | 508.4 | 1.10 | 1 | 8 | 0.22 | 1.27 | 7 |
| 10 | 18 | 10 | 311 | 338.3 | 337.8 | 0.47 | 1 | 8 | 0.14 | 1.12 | 2 |
| 10 | 18 | 10 | 296 | 310.6 | 310.3 | 0.30 | 1 | 2 | 0.10 | 1.20 | 2 |
| 10 | 18 | 10 | 343 | 470.6 | 465.4 | 5.21 | 2 | 8 | 1.11 | 1.15 | 4 |
| 10 | 18 | 10 | 310 | 312.1 | 310.0 | 2.12 | 2 | 2 | 0.68 | 1.04 | 2 |
| 10 | 18 | 10 | 297 | 315.1 | 313.4 | 1.75 | 2 | 2 | 0.56 | 1.20 | 2 |
| 10 | 18 | 10 | 317 | 364.4 | 363.8 | 0.64 | 1 | 2 | 0.18 | 1.14 | 2 |
| 10 | 18 | 10 | 292 | 291.7 | 291.3 | 0.40 | 1 | 2 | 0.14 | 1.17 | 2 |
| 10 | 18 | 10 | 316 | 342.7 | 340.2 | 2.46 | 2 | 2 | 0.72 | 1.08 | n.d. |
| 10 | 18 | 10 | 356 | 560.8 | 559.7 | 1.14 | 1 | 8 | 0.20 | 1.24 | 6 |
| 10 | 18 | 10 | 300 | 338.0 | 335.7 | 2.26 | 2 | 2 | 0.67 | 1.24 | 2 |
| 10 | 18 | 10 | 349 | 543.6 | 542.4 | 1.25 | 1 | 8 | 0.23 | 1.28 | 6 |
| 10 | 18 | 10 | 302 | 328.0 | 325.5 | 2.54 | 2 | 2 | 0.77 | 1.18 | 2 |
| 10 | 19 | 10 | 305 | 276.9 | 274.9 | 2.00 | 2 | 2 | 0.72 | 0.97 | 2 |
| 10 | 19 | 10 | 283 | 266.5 | 266.0 | 0.50 | 1 | 2 | 0.19 | 1.17 | 2 |
| 10 | 19 | 10 | 330 | 437.3 | 436.3 | 1.00 | 1 | 8 | 0.23 | 1.21 | 3 |
| 10 | 19 | 10 | 296 | 313.4 | 311.6 | 1.80 | 2 | 8 | 0.57 | 1.20 | 2 |
| 10 | 19 | 10 | 301 | 263.9 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) Total | Somatic | Gonad | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 19 | 10 | 302 | 303.1 | 302.4 | 0.73 | 1 | 8 | 0.24 | 1.10 | 2 |
| 10 | 19 | 10 | 282 | 213.6 | 212.2 | 1.40 | 2 | 2 | 0.66 | 0.95 | 2 |
| 10 | 19 | 10 | 309 | 312.3 | 310.2 | 2.07 | 2 | 8 | 0.66 | 1.05 | 2 |
| 10 | 19 | 10 | 291 | 278.6 | 276.9 | 1.75 | 2 | 8 | 0.63 | 1.12 | 2 |
| 10 | 19 | 10 | 285 | 255.0 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 306 | 304.4 | 303.7 | 0.71 | 1 | 8 | 0.23 | 1.06 | 2 |
| 10 | 19 | 10 | 304 | 287.6 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 292 | 258.6 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 3 |
| 10 | 19 | 10 | 290 | 277.2 | 276.9 | 0.30 | 1 | 8 | 0.11 | 1.14 | 2 |
| 10 | 19 | 10 | 286 | 222.2 | 219.9 | 2.29 | 2 | 2 | 1.03 | 0.94 | 2 |
| 10 | 19 | 10 | 300 | 294.9 | 294.3 | 0.62 | 1 | 8 | 0.21 | 1.09 | 2 |
| 10 | 19 | 10 | 249 | 168.3 | 167.6 | 0.74 | 2 | 2 | 0.44 | 1.09 | 1 |
| 10 | 19 | 10 | 301 | 314.6 | 312.2 | 2.39 | 2 | 8 | 0.76 | 1.14 | 2 |
| 10 | 19 | 10 | 315 | 372.9 | 371.7 | 1.21 | 1 | 8 | 0.32 | 1.19 | 3 |
| 10 | 19 | 10 | 294 | 288.8 | 288.3 | 0.49 | 1 | 8 | 0.17 | 1.13 | 2 |
| 10 | 19 | 10 | 314 | 350.8 | 349.9 | 0.91 | 1 | 8 | 0.26 | 1.13 | 2 |
| 10 | 19 | 10 | 302 | 306.9 | 306.5 | 0.44 | 1 | 8 | 0.14 | 1.11 | 2 |
| 10 | 19 | 10 | 280 | 219.1 | 218.8 | 0.30 | 1 | 2 | 0.14 | 1.00 | 2 |
| 10 | 19 | 10 | 283 | 224.9 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 292 | 280.0 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 265 | 202.9 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 1 |
| 10 | 19 | 10 | 309 | 297.8 | 295.5 | 2.27 | 2 | 8 | 0.76 | 1.00 | 2 |
| 10 | 19 | 10 | 317 | 415.9 | 412.1 | 3.83 | 2 | 8 | 0.92 | 1.29 | 4 |
| 10 | 19 | 10 | 260 | 165.0 | 164.4 | 0.61 | 2 | 2 | 0.37 | 0.94 | 1 |
| 10 | 19 | 10 | 301 | 281.0 | 278.7 | 2.31 | 2 | 8 | 0.82 | 1.02 | 2 |
| 10 | 19 | 10 | 307 | 297.8 | 297.2 | 0.61 | 1 | 8 | 0.20 | 1.03 | 2 |
| 10 | 19 | 10 | 298 | 252.2 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 309 | 306.3 | 306.0 | 0.27 | 1 | 8 | 0.09 | 1.04 | 2 |
| 10 | 19 | 10 | 282 | 222.9 | 221.4 | 1.50 | 2 | 2 | 0.67 | 0.99 | 2 |
| 10 | 19 | 10 | 291 | 266.9 | 266.5 | 0.40 | 1 | 8 | 0.15 | 1.08 | 2 |
| 10 | 19 | 10 | 314 | 330.3 | 328.0 | 2.29 | 2 | 8 | 0.69 | 1.06 | 3 |
| 10 | 19 | 10 | 294 | 298.1 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 275 | 242.7 | 242.3 | 0.36 | 1 | 2 | 0.15 | 1.17 | 2 |
| 10 | 19 | 10 | 302 | 343.9 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 287 | 265.5 | 264.9 | 0.59 | 1 | 8 | 0.22 | 1.12 | 2 |
| 10 | 19 | 10 | 302 | 300.3 | 298.2 | 2.13 | 2 | 8 | 0.71 | 1.08 | 2 |
| 10 | 19 | 10 | 304 | 309.4 | 308.9 | 0.48 | 1 | 8 | 0.16 | 1.10 | 2 |
| 10 | 19 | 10 | 309 | 356.2 | 355.6 | 0.65 | 1 | 8 | 0.18 | 1.21 | 2 |
| 10 | 19 | 10 | 296 | 270.5 | 268.8 | 1.68 | 2 | 8 | 0.62 | 1.04 | 2 |
| 10 | 19 | 10 | 302 | 290.9 | 288.5 | 2.37 | 2 | 8 | 0.81 | 1.05 | 2 |
| 10 | 19 | 10 | 299 | 300.1 | 297.7 | 2.36 | 2 | 8 | 0.79 | 1.11 | 2 |
| 10 | 19 | 10 | 305 | 274.6 | 272.7 | 1.88 | 2 | 8 | 0.68 | 0.96 | 2 |
| 10 | 19 | 10 | 355 | 548.6 | 544.5 | 4.14 | 2 | 8 | 0.75 | 1.22 | 7 |
| 10 | 19 | 10 | 290 | 266.0 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 248 | 148.6 | 148.0 | 0.65 | 2 | 2 | 0.44 | 0.97 | 1 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 19 | 10 | 294 | 271.0 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 3 |
| 10 | 19 | 10 | 294 | 274.8 | 274.3 | 0.54 | 1 | 8 | 0.20 | 1.08 | 2 |
| 10 | 19 | 10 | 300 | 291.8 | 289.6 | 2.19 | 2 | 8 | 0.75 | 1.07 | 2 |
| 10 | 19 | 10 | 290 | 277.1 | 276.3 | 0.83 | 1 | 8 | 0.30 | 1.13 | 2 |
| 10 | 19 | 10 | 305 | 306.1 | 303.0 | 3.08 | 2 | 8 | 1.01 | 1.07 | 3 |
| 10 | 19 | 10 | 286 | 344.8 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 251 | 162.1 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 1 |
| 10 | 19 | 10 | 256 | 158.5 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 1 |
| 10 | 19 | 10 | 295 | 272.3 | 271.7 | 0.58 | 1 | 8 | 0.21 | 1.06 | 3 |
| 10 | 19 | 10 | 305 | 305.3 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 290 | 258.3 | 256.7 | 1.62 | 2 | 8 | 0.63 | 1.05 | 2 |
| 10 | 19 | 10 | 287 | 252.6 | 251.2 | 1.37 | 2 | 8 | 0.54 | 1.06 | 3 |
| 10 | 19 | 10 | 297 | 280.3 | 279.6 | 0.75 | 1 | 8 | 0.27 | 1.07 | 2 |
| 10 | 19 | 10 | 306 | 304.0 | n.d. | n.d. | 2 | 8 | n.d. | n.d. | 3 |
| 10 | 19 | 10 | 304 | 316.2 | 314.2 | 1.98 | 2 | 2 | 0.63 | 1.12 | 2 |
| 10 | 19 | 10 | 290 | 277.1 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 292 | 285.3 | 283.9 | 1.45 | 2 | 2 | 0.51 | 1.14 | 2 |
| 10 | 19 | 10 | 322 | 409.2 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 3 |
| 10 | 19 | 10 | 290 | 267.9 | 267.2 | 0.66 | 1 | 2 | 0.25 | 1.10 | 2 |
| 10 | 19 | 10 | 295 | 312.5 | 312.1 | 0.36 | 1 | 2 | 0.12 | 1.22 | 2 |
| 10 | 19 | 10 | 304 | 315.1 | 314.7 | 0.44 | 1 | 2 | 0.14 | 1.12 | 3 |
| 10 | 19 | 10 | 295 | 290.4 | 290.2 | 0.17 | 1 | 2 | 0.06 | 1.13 | 2 |
| 10 | 19 | 10 | 302 | 301.4 | 300.9 | 0.49 | 1 | 2 | 0.16 | 1.09 | 2 |
| 10 | 19 | 10 | 302 | 335.9 | 333.7 | 2.25 | 2 | 2 | 0.67 | 1.21 | 3 |
| 10 | 19 | 10 | 314 | 346.7 | 343.7 | 2.99 | 2 | 8 | 0.86 | 1.11 | 2 |
| 10 | 19 | 10 | 288 | 265.6 | 265.2 | 0.40 | 1 | 2 | 0.15 | 1.11 | 2 |
| 10 | 19 | 10 | 306 | 337.2 | 334.3 | 2.94 | 2 | 8 | 0.87 | 1.17 | 2 |
| 10 | 19 | 10 | 303 | 332.1 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 297 | 312.0 | 311.5 | 0.48 | 1 | 2 | 0.15 | 1.19 | 3 |
| 10 | 19 | 10 | 324 | 388.6 | 387.2 | 1.41 | 1 | 8 | 0.36 | 1.14 | 3 |
| 10 | 19 | 10 | 302 | 321.1 | 320.3 | 0.77 | 1 | 2 | 0.24 | 1.16 | 2 |
| 10 | 19 | 10 | 295 | 284.2 | 282.4 | 1.79 | 2 | 2 | 0.63 | 1.10 | 2 |
| 10 | 19 | 10 | 301 | 312.1 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 297 | 291.2 | 290.5 | 0.70 | 1 | 2 | 0.24 | 1.11 | 2 |
| 10 | 19 | 10 | 305 | 339.5 | 338.6 | 0.93 | 1 | 2 | 0.27 | 1.19 | 2 |
| 10 | 19 | 10 | 295 | 262.9 | 261.2 | 1.73 | 2 | 2 | 0.66 | 1.02 | 2 |
| 10 | 19 | 10 | 292 | 251.9 | n.d. | n.d. | 2 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 294 | 304.5 | 304.3 | 0.22 | 1 | 2 | 0.07 | 1.20 | 2 |
| 10 | 19 | 10 | 336 | 422.0 | 417.8 | 4.21 | 2 | 8 | 1.00 | 1.10 | 3 |
| 10 | 19 | 10 | 293 | 259.9 | 259.7 | 0.20 | 2 | 2 | 0.08 | 1.03 | 2 |
| 10 | 19 | 10 | 307 | 302.7 | 302.0 | 0.67 | 1 | 2 | 0.22 | 1.04 | 2 |
| 10 | 19 | 10 | 301 | 300.6 | 298.5 | 2.10 | 2 | 2 | 0.70 | 1.09 | 2 |
| 10 | 19 | 10 | 294 | 266.4 | 264.4 | 2.00 | 2 | 2 | 0.75 | 1.04 | 2 |
| 10 | 19 | 10 | 299 | 311.9 | 311.3 | 0.58 | 1 | 2 | 0.19 | 1.16 | 2 |
| 10 | 19 | 10 | 312 | 323.2 | n.d. | n.d. | 2 | 2 | n.d. | n.d. | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 19 | 10 | 263 | 190.9 | 190.0 | 0.92 | 2 | 2 | 0.48 | 1.04 | 1 |
| 10 | 19 | 10 | 288 | 257.3 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 10 | 343 | 490.5 | 484.6 | 5.94 | 2 | 8 | 1.21 | 1.20 | 6 |
| 10 | 19 | 10 | 373 | 566.0 | 558.9 | 7.09 | 2 | 8 | 1.25 | 1.08 | 6 |
| 10 | 19 | 10 | 301 | 318.5 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 275 | 210.3 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 1 |
| 10 | 19 | 2/0 | 306 | 313.2 | 312.7 | 0.55 | 1 | 8 | 0.18 | 1.09 | 2 |
| 10 | 19 | 2/0 | 287 | 259.0 | 258.6 | 0.37 | 1 | 2 | 0.14 | 1.09 | 2 |
| 10 | 19 | 2/0 | 285 | 252.0 | 251.7 | 0.28 | 1 | 2 | 0.11 | 1.09 | 2 |
| 10 | 19 | 2/0 | 297 | 265.3 | 264.8 | 0.54 | 1 | 2 | 0.20 | 1.01 | 2 |
| 10 | 19 | 2/0 | 262 | 182.7 | 181.8 | 0.90 | 2 | 2 | 0.49 | 1.01 | 1 |
| 10 | 19 | 2/0 | 305 | 296.6 | 294.6 | 2.00 | 2 | 8 | 0.67 | 1.04 | 2 |
| 10 | 19 | 2/0 | 285 | 246.2 | 244.4 | 1.78 | 2 | 2 | 0.72 | 1.06 | 2 |
| 10 | 19 | 2/0 | 300 | 311.0 | 310.3 | 0.70 | 1 | 8 | 0.23 | 1.15 | 2 |
| 10 | 19 | 2/0 | 291 | 284.7 | 282.5 | 2.23 | 2 | 2 | 0.78 | 1.15 | 2 |
| 10 | 19 | 2/0 | 308 | 289.9 | 288.3 | 1.59 | 2 | 8 | 0.55 | 0.99 | 2 |
| 10 | 19 | 2/0 | 290 | 262.6 | 262.1 | 0.54 | 1 | 2 | 0.21 | 1.07 | 2 |
| 10 | 19 | 2/0 | 316 | 321.8 | 320.7 | 1.10 | 2 | 2 | 0.34 | 1.02 | 2 |
| 10 | 19 | 2/0 | 297 | 269.0 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 285 | 223.4 | 222.0 | 1.45 | 2 | 2 | 0.65 | 0.96 | 2 |
| 10 | 19 | 2/0 | 301 | 293.0 | 292.4 | 0.60 | 1 | 2 | 0.20 | 1.07 | 2 |
| 10 | 19 | 2/0 | 296 | 257.3 | 257.0 | 0.34 | 1 | 2 | 0.13 | 0.99 | 2 |
| 10 | 19 | 2/0 | 286 | 239.5 | 237.8 | 1.69 | 2 | 2 | 0.71 | 1.02 | 2 |
| 10 | 19 | 2/0 | 309 | 347.6 | 345.0 | 2.59 | 2 | 8 | 0.75 | 1.17 | 2 |
| 10 | 19 | 2/0 | 295 | 283.4 | 283.0 | 0.45 | 1 | 2 | 0.16 | 1.10 | 2 |
| 10 | 19 | 2/0 | 336 | 423.8 | 423.0 | 0.81 | 1 | 8 | 0.19 | 1.12 | 4 |
| 10 | 19 | 2/0 | 303 | 287.1 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 3 |
| 10 | 19 | 2/0 | 334 | 454.4 | 451.4 | 3.01 | 2 | 8 | 0.66 | 1.21 | 3 |
| 10 | 19 | 2/0 | 312 | 334.8 | 334.3 | 0.55 | 1 | 8 | 0.16 | 1.10 | 3 |
| 10 | 19 | 2/0 | 283 | 252.6 | 251.9 | 0.70 | 1 | 2 | 0.28 | 1.11 | 2 |
| 10 | 19 | 2/0 | 299 | 273.4 | 271.6 | 1.82 | 2 | 2 | 0.67 | 1.02 | 2 |
| 10 | 19 | 2/0 | 313 | 327.5 | 324.9 | 2.64 | 2 | 8 | 0.81 | 1.06 | 2 |
| 10 | 19 | 2/0 | 274 | 218.7 | 218.0 | 0.69 | 1 | 2 | 0.32 | 1.06 | 1 |
| 10 | 19 | 2/0 | 288 | 239.8 | 238.0 | 1.84 | 2 | 2 | 0.77 | 1.00 | 2 |
| 10 | 19 | 2/0 | 300 | 301.6 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 295 | 255.0 | 253.3 | 1.73 | 2 | 2 | 0.68 | 0.99 | 2 |
| 10 | 19 | 2/0 | 290 | 252.4 | 251.0 | 1.42 | 2 | 2 | 0.56 | 1.03 | 2 |
| 10 | 19 | 2/0 | 336 | 450.5 | 446.7 | 3.82 | 2 | 8 | 0.85 | 1.18 | 3 |
| 10 | 19 | 2/0 | 288 | 254.4 | 253.1 | 1.30 | 2 | 2 | 0.51 | 1.06 | 2 |
| 10 | 19 | 2/0 | 292 | 275.9 | 275.7 | 0.19 | 1 | 2 | 0.07 | 1.11 | 2 |
| 10 | 19 | 2/0 | 312 | 334.2 | 332.0 | 2.20 | 2 | 8 | 0.66 | 1.09 | 2 |
| 10 | 19 | 2/0 | 292 | 278.9 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. |
| 10 | 19 | 2/0 | 296 | 266.4 | 264.5 | 1.88 | 2 | 2 | 0.71 | 1.02 | n.d. |
| 10 | 19 | 2/0 | 295 | 306.1 | 305.4 | 0.71 | 1 | 8 | 0.23 | 1.19 | 2 |
| 10 | 19 | 2/0 | 250 | 157.8 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 19 | 2/0 | 302 | 318.0 | 317.6 | 0.40 | 1 | 2 | 0.13 | 1.15 | 1 |
| 10 | 19 | 2/0 | 300 | 277.6 | 275.2 | 2.37 | 2 | 2 | 0.85 | 1.02 | 2 |
| 10 | 19 | 2/0 | 257 | 167.8 | 167.2 | 0.61 | 2 | 2 | 0.36 | 0.98 | 2 |
| 10 | 19 | 2/0 | 301 | 271.6 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 1 |
| 10 | 19 | 2/0 | 336 | 453.3 | 449.6 | 3.73 | 2 | 8 | 0.82 | 1.19 | 2 |
| 10 | 19 | 2/0 | 303 | 316.2 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 3 |
| 10 | 19 | 2/0 | 306 | 291.5 | 290.9 | 0.60 | 1 | 8 | 0.21 | 1.02 | 2 |
| 10 | 19 | 2/0 | 271 | 211.0 | 209.6 | 1.39 | 2 | 2 | 0.66 | 1.05 | 2 |
| 10 | 19 | 2/0 | 299 | 282.1 | 280.5 | 1.60 | 2 | 2 | 0.57 | 1.05 | 2 |
| 10 | 19 | 2/0 | 305 | 299.0 | 296.3 | 2.69 | 2 | 8 | 0.90 | 1.04 | 2 |
| 10 | 19 | 2/0 | 305 | 293.5 | 292.8 | 0.71 | 1 | 2 | 0.24 | 1.03 | 2 |
| 10 | 19 | 2/0 | 292 | 248.0 | 247.7 | 0.34 | 1 | 2 | 0.14 | 0.99 | 2 |
| 10 | 19 | 2/0 | 288 | 248.0 | 246.3 | 1.75 | 2 | 2 | 0.71 | 1.03 | 2 |
| 10 | 19 | 2/0 | 298 | 321.0 | 320.5 | 0.52 | 1 | 2 | 0.16 | 1.21 | 2 |
| 10 | 19 | 2/0 | 293 | 248.3 | 246.3 | 1.96 | 2 | 2 | 0.79 | 0.98 | 3 |
| 10 | 19 | 2/0 | 293 | 242.1 | 241.9 | 0.16 | 1 | 2 | 0.07 | 0.96 | 2 |
| 10 | 19 | 2/0 | 306 | 288.5 | 286.4 | 2.10 | 2 | 8 | 0.73 | 1.00 | 2 |
| 10 | 19 | 2/0 | 289 | 267.0 | 266.5 | 0.49 | 1 | 2 | 0.18 | 1.10 | 3 |
| 10 | 19 | 2/0 | 292 | 265.3 | 263.7 | 1.58 | 2 | 2 | 0.60 | 1.06 | 2 |
| 10 | 19 | 2/0 | 293 | 271.3 | 270.3 | 0.97 | 1 | 2 | 0.36 | 1.07 | 2 |
| 10 | 19 | 2/0 | 305 | 274.3 | 273.6 | 0.71 | 1 | 8 | 0.26 | 0.96 | n.d. |
| 10 | 19 | 2/0 | 320 | 409.3 | 404.2 | 5.09 | 2 | 8 | 1.24 | 1.23 | 2 |
| 10 | 19 | 2/0 | 290 | 276.6 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 4 |
| 10 | 19 | 2/0 | 274 | 218.1 | 217.8 | 0.33 | 1 | 2 | 0.15 | 1.06 | 2 |
| 10 | 19 | 2/0 | 301 | 278.0 | 277.7 | 0.33 | 1 | 2 | 0.12 | 1.02 | 2 |
| 10 | 19 | 2/0 | 299 | 309.9 | 309.5 | 0.38 | 1 | 2 | 0.12 | 1.16 | 2 |
| 10 | 19 | 2/0 | 264 | 191.5 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 301 | 323.9 | 323.5 | 0.38 | 1 | 2 | 0.12 | 1.19 | 1 |
| 10 | 19 | 2/0 | 279 | 236.7 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 283 | 242.2 | 241.8 | 0.43 | 1 | 2 | 0.18 | 1.07 | 2 |
| 10 | 19 | 2/0 | 312 | 312.5 | 311.4 | 1.08 | 2 | 2 | 0.35 | 1.03 | 2 |
| 10 | 19 | 2/0 | 305 | 304.4 | 302.4 | 1.98 | 2 | 2 | 0.65 | 1.07 | 2 |
| 10 | 19 | 2/0 | 330 | 431.6 | 430.7 | 0.93 | 1 | 8 | 0.22 | 1.20 | 4 |
| 10 | 19 | 2/0 | 290 | 277.5 | 276.4 | 1.09 | 2 | 2 | 0.39 | 1.13 | 2 |
| 10 | 19 | 2/0 | 327 | 408.5 | 404.8 | 3.72 | 2 | 8 | 0.91 | 1.16 | n.d. |
| 10 | 19 | 2/0 | 330 | 389.6 | 386.9 | 2.68 | 2 | 8 | 0.69 | 1.08 | 3 |
| 10 | 19 | 2/0 | 281 | 232.7 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 300 | 273.7 | 271.4 | 2.28 | 2 | 2 | 0.83 | 1.01 | 2 |
| 10 | 19 | 2/0 | 289 | 279.7 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 260 | 192.1 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 1 |
| 10 | 19 | 2/0 | 310 | 372.5 | 369.6 | 2.92 | 2 | 8 | 0.78 | 1.24 | 3 |
| 10 | 19 | 2/0 | 297 | 310.3 | 310.0 | 0.32 | 1 | 2 | 0.10 | 1.18 | 2 |
| 10 | 19 | 2/0 | 310 | 341.6 | 339.3 | 2.30 | 2 | 2 | 0.67 | 1.14 | 2 |
| 10 | 19 | 2/0 | 287 | 251.2 | 249.7 | 1.48 | 2 | 2 | 0.59 | 1.06 | 3 |
| 10 | 19 | 2/0 | 322 | 318.7 | 316.7 | 1.97 | 2 | 8 | 0.62 | 0.95 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 19 | 2/0 | 289 | 277.0 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 289 | 269.1 | 268.8 | 0.30 | 1 | 2 | 0.11 | 1.11 | 2 |
| 10 | 19 | 2/0 | 305 | 302.5 | 301.3 | 1.19 | 2 | 2 | 0.39 | 1.06 | 2 |
| 10 | 19 | 2/0 | 318 | 375.8 | 373.2 | 2.64 | 2 | 8 | 0.70 | 1.16 | 2 |
| 10 | 19 | 2/0 | 306 | 317.2 | 314.9 | 2.33 | 2 | 8 | 0.73 | 1.10 | 2 |
| 10 | 19 | 2/0 | 290 | 267.1 | 265.4 | 1.66 | 2 | 2 | 0.62 | 1.09 | 2 |
| 10 | 19 | 2/0 | 294 | 260.1 | 258.3 | 1.79 | 2 | 2 | 0.69 | 1.02 | 2 |
| 10 | 19 | 2/0 | 294 | 261.8 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 336 | 422.1 | 417.3 | 4.81 | 2 | 8 | 1.14 | 1.10 | 4 |
| 10 | 19 | 2/0 | 283 | 246.1 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 295 | 286.6 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 275 | 227.0 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 295 | 289.2 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 19 | 2/0 | 273 | 231.8 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 22 | 10 | 299 | 301.7 | 299.6 | 2.12 | 2 | 8 | 0.70 | 1.12 | 2 |
| 10 | 22 | 10 | 273 | 219.0 | 218.6 | 0.40 | 1 | 2 | 0.18 | 1.07 | 2 |
| 10 | 22 | 10 | 302 | 322.4 | 319.6 | 2.77 | 2 | 8 | 0.86 | 1.16 | 2 |
| 10 | 22 | 10 | 283 | 252.2 | 252.0 | 0.16 | 1 | 2 | 0.06 | 1.11 | 2 |
| 10 | 22 | 10 | 292 | 250.0 | 247.9 | 2.11 | 2 | 8 | 0.84 | 1.00 | 2 |
| 10 | 22 | 10 | 293 | 289.1 | 288.6 | 0.50 | 1 | 8 | 0.17 | 1.15 | 2 |
| 10 | 22 | 10 | 285 | 252.2 | 250.4 | 1.80 | 2 | 8 | 0.71 | 1.08 | 2 |
| 10 | 22 | 10 | 311 | 329.5 | 326.9 | 2.59 | 2 | 8 | 0.79 | 1.09 | 2 |
| 10 | 22 | 10 | 302 | 275.5 | 273.5 | 2.00 | 2 | 8 | 0.73 | 0.99 | 2 |
| 10 | 22 | 10 | 310 | 355.5 | 353.2 | 2.35 | 2 | 8 | 0.66 | 1.19 | 2 |
| 10 | 22 | 10 | 257 | 179.2 | 178.3 | 0.92 | 2 | 2 | 0.51 | 1.05 | 1 |
| 10 | 22 | 10 | 291 | 272.0 | 271.6 | 0.42 | 1 | 2 | 0.15 | 1.10 | 2 |
| 10 | 22 | 10 | 313 | 344.9 | 344.6 | 0.35 | 1 | 2 | 0.10 | 1.12 | 2 |
| 10 | 22 | 10 | 292 | 260.9 | 258.7 | 2.20 | 2 | 2 | 0.84 | 1.04 | 2 |
| 10 | 22 | 10 | 294 | 284.4 | 282.9 | 1.54 | 2 | 8 | 0.54 | 1.11 | 2 |
| 10 | 22 | 10 | 331 | 423.4 | 420.1 | 3.31 | 2 | 8 | 0.78 | 1.16 | 3 |
| 10 | 22 | 10 | 290 | 264.0 | 263.6 | 0.40 | 1 | 2 | 0.15 | 1.08 | 3 |
| 10 | 22 | 10 | 295 | 264.7 | 264.4 | 0.29 | 1 | 8 | 0.11 | 1.03 | 3 |
| 10 | 22 | 10 | 286 | 276.2 | 275.9 | 0.32 | 1 | 8 | 0.12 | 1.18 | 2 |
| 10 | 22 | 10 | 290 | 264.5 | 262.8 | 1.67 | 2 | 2 | 0.63 | 1.08 | 2 |
| 10 | 22 | 10 | 296 | 300.4 | 300.1 | 0.34 | 1 | 2 | 0.11 | 1.16 | 2 |
| 10 | 22 | 10 | 291 | 254.5 | 254.4 | 0.15 | 1 | 2 | 0.06 | 1.03 | 2 |
| 10 | 22 | 10 | 316 | 373.4 | 369.7 | 3.75 | 2 | 8 | 1.00 | 1.17 | 3 |
| 10 | 22 | 10 | 304 | 307.8 | 307.4 | 0.40 | 1 | 8 | 0.13 | 1.09 | 2 |
| 10 | 22 | 10 | 293 | 266.3 | 266.1 | 0.24 | 1 | 8 | 0.09 | 1.06 | 2 |
| 10 | 22 | 10 | 292 | 264.0 | 262.9 | 1.15 | 2 | 2 | 0.44 | 1.06 | 2 |
| 10 | 22 | 10 | 292 | 254.4 | 252.5 | 1.95 | 2 | 8 | 0.77 | 1.01 | 2 |
| 10 | 22 | 10 | 352 | 543.0 | 541.4 | 1.62 | 1 | 8 | 0.30 | 1.24 | 6 |
| 10 | 22 | 10 | 289 | 272.0 | 271.7 | 0.33 | 1 | 2 | 0.12 | 1.13 | 2 |
| 10 | 22 | 10 | 309 | 340.8 | 338.4 | 2.43 | 2 | 8 | 0.71 | 1.15 | 2 |
| 10 | 22 | 10 | 290 | 282.1 | 281.7 | 0.45 | 1 | 2 | 0.16 | 1.15 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) Total | Somatic | Gonad | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 22 | 10 | 319 | 421.2 | 418.3 | 2.92 | 2 | 8 | 0.69 | 1.29 | 2 |
| 10 | 22 | 10 | 295 | 324.5 | 321.9 | 2.63 | 2 | 8 | 0.81 | 1.25 | 2 |
| 10 | 22 | 10 | 285 | 263.8 | 261.8 | 1.98 | 2 | 8 | 0.75 | 1.13 | 2 |
| 10 | 22 | 10 | 305 | 343.7 | 341.6 | 2.08 | 2 | 8 | 0.61 | 1.20 | 2 |
| 10 | 22 | 10 | 295 | 311.5 | 309.2 | 2.32 | 2 | 8 | 0.74 | 1.20 | 2 |
| 10 | 22 | 10 | 275 | 239.5 | 239.2 | 0.30 | 1 | 2 | 0.13 | 1.15 | 2 |
| 10 | 22 | 10 | 307 | 309.7 | 307.5 | 2.22 | 2 | 8 | 0.72 | 1.06 | 2 |
| 10 | 22 | 10 | 287 | 245.5 | 243.6 | 1.91 | 2 | 8 | 0.78 | 1.03 | 2 |
| 10 | 22 | 10 | 301 | 323.7 | 323.3 | 0.45 | 1 | 8 | 0.14 | 1.19 | 2 |
| 10 | 22 | 10 | 320 | 380.5 | 377.2 | 3.32 | 2 | 8 | 0.87 | 1.15 | 2 |
| 10 | 22 | 10 | 281 | 233.3 | 231.3 | 1.97 | 2 | 8 | 0.84 | 1.04 | 2 |
| 10 | 22 | 10 | 281 | 251.9 | 251.7 | 0.23 | 1 | 8 | 0.09 | 1.13 | 2 |
| 10 | 22 | 10 | 299 | 306.4 | 306.0 | 0.36 | 1 | 8 | 0.12 | 1.14 | 2 |
| 10 | 22 | 10 | 254 | 160.0 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 1 |
| 10 | 22 | 10 | 285 | 261.0 | 260.6 | 0.39 | 1 | 2 | 0.15 | 1.13 | 2 |
| 10 | 22 | 10 | 311 | 362.8 | 359.7 | 3.08 | 2 | 8 | 0.85 | 1.20 | 2 |
| 10 | 22 | 10 | 300 | 320.5 | 320.0 | 0.54 | 1 | 8 | 0.17 | 1.19 | 2 |
| 10 | 22 | 10 | 339 | 435.9 | 435.4 | 0.49 | 1 | 8 | 0.11 | 1.12 | 4 |
| 10 | 22 | 10 | 316 | 382.3 | 378.8 | 3.54 | 2 | 8 | 0.93 | 1.20 | n.d. |
| 10 | 22 | 10 | 265 | 196.0 | 194.9 | 1.15 | 2 | 2 | 0.59 | 1.05 | 1 |
| 10 | 22 | 10 | 321 | 410.5 | 409.8 | 0.70 | 1 | 8 | 0.17 | 1.24 | 4 |
| 10 | 22 | 10 | 281 | 243.9 | n.d. | n.d. | 1 |  | n.d. | n.d. | 2 |
| 10 | 22 | 10 | 293 | 268.7 | 268.0 | 0.69 | 1 | 8 | 0.26 | 1.07 | 2 |
| 10 | 22 | 10 | 303 | 285.7 | 283.6 | 2.14 | 2 | 8 | 0.75 | 1.02 | 2 |
| 10 | 22 | 10 | 371 | 625.8 | 624.6 | 1.23 | 1 | 8 | 0.20 | 1.22 | 6 |
| 10 | 22 | 10 | 286 | 251.4 | 249.7 | 1.67 | 2 | 2 | 0.66 | 1.07 | 2 |
| 10 | 22 | 10 | 311 | 334.2 | 332.0 | 2.17 | 2 | 8 | 0.65 | 1.10 | 2 |
| 10 | 22 | 10 | 266 | 180.9 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 1 |
| 10 | 22 | 10 | 256 | 169.1 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 1 |
| 10 | 22 | 10 | 291 | 281.8 | n.d. | n.d. | 2 | n.d. | n.d. | n.d. | 2 |
| 10 | 22 | 10 | 295 | 300.5 | 298.6 | 1.95 | 2 | 8 | 0.65 | 1.16 | 2 |
| 10 | 22 | 10 | 290 | 263.7 | 261.9 | 1.76 | 2 | 8 | 0.67 | 1.07 | 2 |
| 10 | 22 | 10 | 267 | 198.0 | 196.1 | 1.90 | 2 | 8 | 0.96 | 1.03 | 1 |
| 10 | 22 | 10 | 357 | 517.3 | 510.8 | 6.48 | 2 | 8 | 1.25 | 1.12 | 6 |
| 10 | 22 | 10 | 332 | 435.4 | 434.4 | 0.96 | 1 | 8 | 0.22 | 1.19 | 4 |
| 10 | 22 | 10 | 296 | 297.8 | 297.4 | 0.42 | 1 | 2 | 0.14 | 1.15 | 2 |
| 10 | 22 | 10 | 294 | 276.3 | 274.5 | 1.81 | 2 | 2 | 0.66 | 1.08 | 2 |
| 10 | 22 | 10 | 268 | 195.4 | 195.0 | 0.41 | 2 | 2 | 0.21 | 1.01 | 1 |
| 10 | 22 | 10 | 270 | 208.3 | 207.0 | 1.27 | 2 | 2 | 0.61 | 1.05 | 2 |
| 10 | 22 | 10 | 317 | 414.2 | 413.5 | 0.69 | 1 | 8 | 0.17 | 1.30 | 3 |
| 10 | 22 | 10 | 337 | 487.1 | 486.0 | 1.10 | 1 | 8 | 0.23 | 1.27 | 4 |
| 10 | 22 | 10 | 310 | 341.3 | 340.7 | 0.64 | 1 | 8 | 0.19 | 1.14 | 2 |
| 10 | 22 | 10 | 338 | 508.3 | 507.5 | 0.85 | 1 | 8 | 0.17 | 1.31 | 4 |
| 10 | 22 | 10 | 304 | 316.4 | 316.0 | 0.39 | 1 | 2 | 0.12 | 1.12 | 2 |
| 10 | 22 | 10 | 342 | 473.9 | 472.9 | 1.03 | 1 | 8 | 0.22 | 1.18 | 6 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) Total | Somatic | Gonad | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 22 | 10 | 311 | 335.3 | 334.6 | 0.67 | 1 | 8 | 0.20 | 1.11 | 3 |
| 10 | 22 | 10 | 299 | 318.2 | 316.3 | 1.92 | 2 | 2 | 0.60 | 1.18 | 3 |
| 10 | 22 | 10 | 292 | 275.6 | 275.2 | 0.42 | 1 | 2 | 0.15 | 1.11 | 2 |
| 10 | 22 | 10 | 288 | 289.6 | 289.1 | 0.52 | 1 | 2 | 0.18 | 1.21 | 2 |
| 10 | 22 | 10 | 287 | 265.5 | 265.2 | 0.33 | 1 | 2 | 0.12 | 1.12 | 2 |
| 10 | 22 | 10 | 285 | 273.3 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 22 | 10 | 305 | 330.5 | 329.4 | 1.09 | 1 | 2 | 0.33 | 1.16 | 2 |
| 10 | 22 | 10 | 300 | 279.4 | 277.5 | 1.86 | 2 | 2 | 0.67 | 1.03 | 2 |
| 10 | 22 | 10 | 314 | 397.4 | 396.8 | 0.65 | 1 | 8 | 0.16 | 1.28 | 3 |
| 10 | 22 | 10 | 346 | 562.9 | 561.6 | 1.28 | 1 | 2 | 0.23 | 1.36 | 6 |
| 10 | 22 | 10 | 309 | 329.4 | 328.2 | 1.22 | 1 | 2 | 0.37 | 1.11 | 2 |
| 10 | 22 | 10 | 299 | 331.8 | 331.2 | 0.57 | 1 | 2 | 0.17 | 1.24 | 3 |
| 10 | 22 | 10 | 302 | 290.0 | 287.3 | 2.67 | 2 | 8 | 0.92 | 1.04 | 3 |
| 10 | 22 | 10 | 289 | 234.5 | 232.5 | 2.01 | 2 | 2 | 0.86 | 0.96 | n.d. |
| 10 | 22 | 10 | 303 | 325.7 | 325.3 | 0.41 | 1 | 2 | 0.13 | 1.17 | 2 |
| 10 | 22 | 10 | 297 | 277.1 | 274.9 | 2.17 | 2 | 2 | 0.78 | 1.05 | 2 |
| 10 | 22 | 10 | 312 | 342.9 | 340.6 | 2.29 | 2 | 8 | 0.67 | 1.12 | 2 |
| 10 | 22 | 10 | 256 | 169.9 | n.d. | n.d. | 1 | 1 | n.d. | n.d. | 1 |
| 10 | 22 | 10 | 285 | 235.2 | 233.5 | 1.75 | 2 | 2 | 0.74 | 1.01 | 2 |
| 10 | 22 | 10 | 285 | 252.5 | 252.0 | 0.50 | 1 | 2 | 0.20 | 1.09 | 2 |
| 10 | 22 | 10 | 287 | 276.7 | 276.2 | 0.53 | 1 | 2 | 0.19 | 1.17 | 2 |
| 10 | 22 | 10 | 305 | 324.4 | 323.9 | 0.50 | 1 | 2 | 0.15 | 1.14 | 2 |
| 10 | 22 | 10 | 290 | 264.1 | 263.7 | 0.45 | 1 | 2 | 0.17 | 1.08 | 2 |
| 10 | 22 | 10 | 330 | 383.0 | 379.2 | 3.76 | 2 | 8 | 0.98 | 1.06 | 3 |
| 10 | 22 | 2/0 | 342 | 494.4 | 489.5 | 4.88 | 2 | 8 | 0.99 | 1.22 | 3 |
| 10 | 22 | 2/0 | 307 | 322.4 | 322.0 | 0.39 | 1 | 8 | 0.12 | 1.11 | 3 |
| 10 | 22 | 2/0 | 311 | 314.8 | 314.0 | 0.81 | 1 | 2 | 0.26 | 1.04 | 2 |
| 10 | 22 | 2/0 | 283 | 254.7 | 252.9 | 1.78 | 2 | 2 | 0.70 | 1.12 | 2 |
| 10 | 22 | 2/0 | 262 | 209.9 | 209.1 | 0.78 | 2 | 2 | 0.37 | 1.16 | 1 |
| 10 | 22 | 2/0 | 290 | 271.4 | 269.5 | 1.95 | 2 | 2 | 0.72 | 1.10 | 2 |
| 10 | 22 | 2/0 | 312 | 356.0 | 355.5 | 0.55 | 1 | 2 | 0.15 | 1.17 | 2 |
| 10 | 22 | 2/0 | 298 | 298.2 | 297.7 | 0.49 | 1 | 2 | 0.16 | 1.12 | 2 |
| 10 | 22 | 2/0 | 290 | 297.9 | 295.5 | 2.39 | 2 | 2 | 0.80 | 1.21 | 2 |
| 10 | 22 | 2/0 | 310 | 375.0 | 373.1 | 1.90 | 2 | 8 | 0.51 | 1.25 | 2 |
| 10 | 22 | 2/0 | 299 | 335.9 | 333.1 | 2.81 | 2 | 2 | 0.84 | 1.25 | 2 |
| 10 | 22 | 2/0 | 284 | 266.5 | 265.1 | 1.43 | 2 | 2 | 0.54 | 1.16 | 2 |
| 10 | 22 | 2/0 | 297 | 308.4 | 307.7 | 0.75 | 1 | 2 | 0.24 | 1.17 | 2 |
| 10 | 22 | 2/0 | 295 | 297.6 | 295.4 | 2.22 | 2 | 2 | 0.75 | 1.15 | 2 |
| 10 | 22 | 2/0 | 310 | 347.3 | 346.4 | 0.89 | 1 | 2 | 0.26 | 1.16 | 3 |
| 10 | 22 | 2/0 | 299 | 305.4 | 304.3 | 1.11 | 1 | 2 | 0.36 | 1.14 | 2 |
| 10 | 22 | 2/0 | 295 | 298.2 | 297.6 | 0.56 | 1 | 2 | 0.19 | 1.16 | 2 |
| 10 | 22 | 2/0 | 295 | 298.4 | 296.1 | 2.35 | 2 | 2 | 0.79 | 1.15 | 2 |
| 10 | 22 | 2/0 | 293 | 259.8 | 257.5 | 2.34 | 2 | 2 | 0.90 | 1.02 | 2 |
| 10 | 22 | 2/0 | 285 | 247.6 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 22 | 2/0 | 324 | 356.2 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | n.d. |
| 10 | 22 | 2/0 | 300 | 298.9 | 298.3 | 0.63 | 1 | 2 | 0.21 | 1.10 | 2 |
| 10 | 22 | 2/0 | 339 | 470.1 | 466.2 | 3.95 | 2 | 8 | 0.84 | 1.20 | 3 |
| 10 | 22 | 2/0 | 307 | 337.0 | 336.6 | 0.36 | 1 | 8 | 0.11 | 1.16 | 2 |
| 10 | 22 | 2/0 | 307 | 374.6 | 372.3 | 2.26 | 2 | 8 | 0.60 | 1.29 | 2 |
| 10 | 22 | 2/0 | 303 | 324.0 | 321.5 | 2.48 | 2 | 2 | 0.77 | 1.16 | 2 |
| 10 | 22 | 2/0 | 290 | 252.6 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 22 | 2/0 | 332 | 419.3 | 418.1 | 1.18 | 1 | 8 | 0.28 | 1.14 | 2 |
| 10 | 22 | 2/0 | 304 | 322.9 | 320.3 | 2.64 | 2 | 8 | 0.82 | 1.14 | 2 |
| 10 | 22 | 2/0 | 291 | 282.7 | 282.2 | 0.46 | 1 | 2 | 0.16 | 1.15 | 2 |
| 10 | 22 | 2/0 | 312 | 319.2 | 318.8 | 0.42 | 1 | 8 | 0.13 | 1.05 | 2 |
| 10 | 22 | 2/0 | 316 | 372.3 | 371.7 | 0.60 | 1 | 8 | 0.16 | 1.18 | 3 |
| 10 | 22 | 2/0 | 331 | 406.7 | 404.0 | 2.72 | 2 | 8 | 0.67 | 1.11 | 2 |
| 10 | 22 | 2/0 | 292 | 262.1 | 261.6 | 0.48 | 1 | 2 | 0.18 | 1.05 | 2 |
| 10 | 22 | 2/0 | 305 | 342.6 | 340.1 | 2.51 | 2 | 2 | 0.73 | 1.20 | 6 |
| 10 | 22 | 2/0 | 356 | 573.1 | 571.5 | 1.57 | 1 | 8 | 0.27 | 1.27 | 2 |
| 10 | 22 | 2/0 | 295 | 261.4 | 260.3 | 1.07 | 2 | 2 | 0.41 | 1.01 | 2 |
| 10 | 22 | 2/0 | 313 | 352.4 | 350.0 | 2.40 | 2 | 2 | 0.68 | 1.14 | 2 |
| 10 | 22 | 2/0 | 302 | 304.7 | 304.4 | 0.29 | 1 | 2 | 0.10 | 1.11 | 2 |
| 10 | 22 | 2/0 | 313 | 326.8 | 326.3 | 0.46 | 1 | 8 | 0.14 | 1.06 | 2 |
| 10 | 22 | 2/0 | 295 | 273.0 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 22 | 2/0 | 330 | 415.0 | 410.8 | 4.17 | 2 | 8 | 1.00 | 1.14 | 3 |
| 10 | 22 | 2/0 | 290 | 265.9 | 265.4 | 0.48 | 1 | 2 | 0.18 | 1.09 | 2 |
| 10 | 22 | 2/0 | 305 | 303.2 | 302.5 | 0.68 | 1 | 2 | 0.22 | 1.07 | 2 |
| 10 | 22 | 2/0 | 297 | 295.0 | 292.9 | 2.14 | 2 | 2 | 0.73 | 1.12 | 2 |
| 10 | 22 | 2/0 | 335 | 436.5 | 431.6 | 4.89 | 2 | 8 | 1.12 | 1.15 | 4 |
| 10 | 22 | 2/0 | 299 | 306.2 | 305.8 | 0.38 | 1 | 2 | 0.12 | 1.14 | 3 |
| 10 | 22 | 2/0 | 263 | 186.5 | 185.4 | 1.13 | 2 | 2 | 0.61 | 1.02 | 1 |
| 10 | 22 | 2/0 | 293 | 289.8 | 287.6 | 2.24 | 2 | 2 | 0.77 | 1.14 | 2 |
| 10 | 22 | 2/0 | 305 | 304.9 | 304.4 | 0.52 | 1 | 8 | 0.17 | 1.07 | 2 |
| 10 | 22 | 2/0 | 311 | 385.8 | 383.3 | 2.50 | 2 | 8 | 0.65 | 1.27 | 3 |
| 10 | 22 | 2/0 | 344 | 505.3 | 500.2 | 5.06 | 2 | 8 | 1.00 | 1.23 | 6 |
| 10 | 22 | 2/0 | 315 | 356.3 | 353.6 | 2.73 | 2 | 8 | 0.77 | 1.13 | 4 |
| 10 | 22 | 2/0 | 288 | 291.5 | 291.1 | 0.43 | 1 | 2 | 0.15 | 1.22 | 2 |
| 10 | 22 | 2/0 | 291 | 295.7 | 293.1 | 2.59 | 2 | 8 | 0.88 | 1.19 | 2 |
| 10 | 22 | 2/0 | 288 | 293.8 | 291.0 | 2.82 | 2 | 2 | 0.96 | 1.22 | 2 |
| 10 | 22 | 2/0 | 282 | 240.1 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 22 | 2/0 | 302 | 315.6 | 313.2 | 2.38 | 2 | 2 | 0.75 | 1.14 | 3 |
| 10 | 22 | 2/0 | 315 | 360.6 | 358.5 | 2.12 | 2 | 2 | 0.59 | 1.15 | 3 |
| 10 | 22 | 2/0 | 277 | 243.4 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 1 |
| 10 | 22 | 2/0 | 282 | 247.8 | 247.4 | 0.37 | 1 | 2 | 0.15 | 1.10 | 2 |
| 10 | 22 | 2/0 | 306 | 328.1 | 327.7 | 0.36 | 1 | 8 | 0.11 | 1.14 | 3 |
| 10 | 22 | 2/0 | 304 | 294.5 | 292.3 | 2.25 | 2 | 2 | 0.76 | 1.04 | 3 |
| 10 | 22 | 2/0 | 319 | 366.4 | 363.2 | 3.18 | 2 | 8 | 0.87 | 1.12 | 2 |
| 10 | 22 | 2/0 | 297 | 279.3 | 277.2 | 2.10 | 2 | 2 | 0.75 | 1.06 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) Total | Somatic | Gonad | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 22 | 2/0 | 296 | 285.6 | 285.1 | 0.48 | 1 | 2 | 0.17 | 1.10 | 2 |
| 10 | 22 | 2/0 | 311 | 357.4 | 356.9 | 0.47 | 1 | 8 | 0.13 | 1.19 | 3 |
| 10 | 22 | 2/0 | 306 | 338.8 | 336.7 | 2.07 | 2 | 8 | 0.61 | 1.18 | 2 |
| 10 | 22 | 2/0 | 291 | 285.1 | 284.5 | 0.58 | 1 | 2 | 0.20 | 1.15 | n.d. |
| 10 | 22 | 2/0 | 294 | 253.2 | 251.6 | 1.64 | 2 | 2 | 0.65 | 0.99 | 2 |
| 10 | 22 | 2/0 | 282 | 257.3 | 257.0 | 0.33 | 1 | 2 | 0.13 | 1.15 | 2 |
| 10 | 22 | 2/0 | 292 | 285.5 | 283.2 | 2.30 | 2 | 2 | 0.81 | 1.14 | 2 |
| 10 | 22 | 2/0 | 301 | 295.6 | 292.9 | 2.67 | 2 | 2 | 0.90 | 1.07 | 2 |
| 10 | 22 | 2/0 | 285 | 260.4 | 258.2 | 2.17 | 2 | 2 | 0.83 | 1.12 | 2 |
| 10 | 22 | 2/0 | 318 | 334.0 | 331.4 | 2.58 | 2 | 8 | 0.77 | 1.03 | n.d. |
| 10 | 22 | 2/0 | 308 | 324.4 | 323.9 | 0.53 | 1 | 8 | 0.16 | 1.11 | 2 |
| 10 | 22 | 2/0 | 321 | 385.0 | 384.3 | 0.68 | 1 | 8 | 0.18 | 1.16 | 3 |
| 10 | 22 | 2/0 | 304 | 330.3 | 327.9 | 2.38 | 2 | 8 | 0.72 | 1.17 | 2 |
| 10 | 22 | 2/0 | 306 | 358.4 | 357.6 | 0.76 | 1 | 8 | 0.21 | 1.25 | 2 |
| 10 | 22 | 2/0 | 317 | 388.5 | 385.6 | 2.95 | 2 | 8 | 0.76 | 1.21 | 3 |
| 10 | 22 | 2/0 | 366 | 576.0 | 574.9 | 1.13 | 1 | 8 | 0.20 | 1.17 | 6 |
| 10 | 22 | 2/0 | 285 | 248.0 | 246.7 | 1.35 | 2 | 2 | 0.54 | 1.07 | 2 |
| 10 | 22 | 2/0 | 300 | 292.7 | 292.3 | 0.38 | 1 | 2 | 0.13 | 1.08 | 2 |
| 10 | 22 | 2/0 | 351 | 514.5 | 513.3 | 1.17 | 1 | 8 | 0.23 | 1.19 | 6 |
| 10 | 22 | 2/0 | 289 | 275.5 | n.d. | n.d. | 2 | 2 | n.d. | n.d. | 2 |
| 10 | 22 | 2/0 | 292 | 297.6 | 296.9 | 0.71 | 1 | 2 | 0.24 | 1.19 | 2 |
| 10 | 22 | 2/0 | 307 | 335.5 | 333.0 | 2.48 | 2 | 8 | 0.74 | 1.15 | 2 |
| 10 | 22 | 2/0 | 306 | 306.5 | 304.2 | 2.26 | 2 | 8 | 0.74 | 1.06 | 2 |
| 10 | 22 | 2/0 | 277 | 258.0 | 256.0 | 2.03 | 2 | 2 | 0.79 | 1.20 | 2 |
| 10 | 22 | 2/0 | 290 | 252.9 | 252.6 | 0.32 | 1 | 2 | 0.13 | 1.04 | 2 |
| 10 | 22 | 2/0 | 313 | 348.6 | 344.9 | 3.75 | 2 | 8 | 1.08 | 1.12 | 3 |
| 10 | 22 | 2/0 | 342 | 413.5 | 409.7 | 3.78 | 2 | 8 | 0.91 | 1.02 | 3 |
| 10 | 22 | 2/0 | 304 | 312.0 | 310.3 | 1.75 | 2 | 2 | 0.56 | 1.10 | n.d. |
| 10 | 22 | 2/0 | 311 | 340.9 | 339.8 | 1.06 | 1 | 2 | 0.31 | 1.13 | 3 |
| 10 | 22 | 2/0 | 313 | 336.0 | 335.0 | 0.97 | 1 | 8 | 0.29 | 1.09 | 2 |
| 10 | 22 | 2/0 | 289 | 287.1 | 286.8 | 0.35 | 1 | 2 | 0.12 | 1.19 | 2 |
| 10 | 22 | 2/0 | 360 | 552.1 | 546.6 | 5.50 | 2 | 8 | 1.00 | 1.17 | 5 |
| 10 | 22 | 2/0 | 294 | 292.3 | 291.9 | 0.40 | 1 | 2 | 0.14 | 1.15 | 2 |
| 10 | 22 | 2/0 | 337 | 488.9 | 484.8 | 4.06 | 2 | 8 | 0.83 | 1.27 | 3 |
| 10 | 23 | 10 | 282 | 225.5 | 224.8 | 0.75 | 1 | 2 | 0.33 | 1.00 | 2 |
| 10 | 23 | 10 | 282 | 229.3 | 227.6 | 1.74 | 2 | 2 | 0.76 | 1.01 | 2 |
| 10 | 23 | 10 | 302 | 309.0 | 306.8 | 2.20 | 2 | 2 | 0.71 | 1.11 | 2 |
| 10 | 23 | 10 | 288 | 262.2 | 261.8 | 0.44 | 1 | 2 | 0.17 | 1.10 | 2 |
| 10 | 23 | 10 | 288 | 247.9 | 247.4 | 0.52 | 1 | 2 | 0.21 | 1.04 | 2 |
| 10 | 23 | 10 | 326 | 372.5 | 369.2 | 3.35 | 2 | 8 | 0.90 | 1.07 | 3 |
| 10 | 23 | 10 | 296 | 264.9 | 262.9 | 1.97 | 2 | 2 | 0.74 | 1.01 | 2 |
| 10 | 23 | 10 | 310 | 322.2 | 320.1 | 2.12 | 2 | 8 | 0.66 | 1.07 | 2 |
| 10 | 23 | 10 | 302 | 308.4 | 307.6 | 0.77 | 1 | 8 | 0.25 | 1.12 | 3 |
| 10 | 23 | 10 | 305 | 281.2 | 280.9 | 0.31 | 1 | 8 | 0.11 | 0.99 | 2 |
| 10 | 23 | 10 | 295 | 265.3 | 263.1 | 2.18 | 2 | 2 | 0.82 | 1.02 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 23 | 10 | 311 | 321.3 | 319.1 | 2.16 | 2 | 8 | 0.67 | 1.06 | 2 |
| 10 | 23 | 10 | 312 | 300.2 | 299.7 | 0.52 | 1 | 8 | 0.17 | 0.99 | 2 |
| 10 | 23 | 10 | 302 | 283.8 | 283.3 | 0.51 | 1 | 2 | 0.18 | 1.03 | 2 |
| 10 | 23 | 10 | 289 | 276.3 | 275.9 | 0.39 | 1 | 2 | 0.14 | 1.14 | 2 |
| 10 | 23 | 10 | 300 | 314.1 | 313.5 | 0.57 | 1 | 2 | 0.18 | 1.16 | 2 |
| 10 | 23 | 10 | 291 | 244.3 | 243.7 | 0.65 | 1 | 2 | 0.27 | 0.99 | 2 |
| 10 | 23 | 10 | 286 | 238.1 | 236.7 | 1.41 | 2 | 2 | 0.59 | 1.01 | 2 |
| 10 | 23 | 10 | 299 | 259.5 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 281 | 241.6 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 296 | 264.2 | 261.9 | 2.34 | 2 | 2 | 0.89 | 1.01 | 2 |
| 10 | 23 | 10 | 288 | 246.4 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 286 | 235.8 | 234.9 | 0.90 | 1 | 2 | 0.38 | 1.00 | 2 |
| 10 | 23 | 10 | 287 | 246.0 | 243.8 | 2.25 | 2 | 2 | 0.91 | 1.03 | 2 |
| 10 | 23 | 10 | 284 | 236.8 | 234.5 | 2.28 | 1 | 2 | 0.96 | 1.02 | 2 |
| 10 | 23 | 10 | 310 | 316.1 | 315.4 | 0.71 | 1 | 8 | 0.22 | 1.06 | 2 |
| 10 | 23 | 10 | 308 | 321.4 | 320.7 | 0.68 | 1 | 8 | 0.21 | 1.10 | 3 |
| 10 | 23 | 10 | 292 | 273.5 | 273.3 | 0.20 | 2 | 2 | 0.07 | 1.10 | 2 |
| 10 | 23 | 10 | 295 | 279.3 | 276.3 | 3.00 | 2 | 8 | 1.07 | 1.08 | 2 |
| 10 | 23 | 10 | 268 | 195.4 | 194.9 | 0.50 | 1 | 2 | 0.26 | 1.01 | 1 |
| 10 | 23 | 10 | 296 | 251.5 | 250.8 | 0.75 | 1 | 2 | 0.30 | 0.97 | 2 |
| 10 | 23 | 10 | 326 | 358.5 | 358.0 | 0.51 | 1 | 8 | 0.14 | 1.03 | 3 |
| 10 | 23 | 10 | 279 | 219.0 | 218.6 | 0.36 | 1 | 2 | 0.16 | 1.01 | 2 |
| 10 | 23 | 10 | 285 | 217.7 | 216.5 | 1.17 | 2 | 2 | 0.54 | 0.94 | 2 |
| 10 | 23 | 10 | 260 | 168.8 | 168.4 | 0.41 | 1 | 2 | 0.24 | 0.96 | 1 |
| 10 | 23 | 10 | 304 | 290.7 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 292 | 271.8 | 271.4 | 0.36 | 1 | 2 | 0.13 | 1.09 | 2 |
| 10 | 23 | 10 | 317 | 400.4 | 399.6 | 0.79 | 1 | 8 | 0.20 | 1.25 | 2 |
| 10 | 23 | 10 | 285 | 233.9 | 231.9 | 2.00 | 2 | 2 | 0.86 | 1.00 | 2 |
| 10 | 23 | 10 | 298 | 290.4 | n.d. | n.d. | 2 | 2 | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 304 | 286.7 | 286.4 | 0.35 | 1 | 8 | 0.12 | 1.02 | 2 |
| 10 | 23 | 10 | 289 | 254.3 | 252.2 | 2.12 | 2 | 2 | 0.83 | 1.04 | 2 |
| 10 | 23 | 10 | 296 | 260.9 | 260.6 | 0.35 | 1 | 2 | 0.13 | 1.00 | 2 |
| 10 | 23 | 10 | 294 | 267.2 | 265.0 | 2.19 | 2 | 2 | 0.82 | 1.04 | 2 |
| 10 | 23 | 10 | 280 | 236.0 | 235.5 | 0.49 | 1 | 2 | 0.21 | 1.07 | 2 |
| 10 | 23 | 10 | 286 | 259.8 | 258.3 | 1.54 | 2 | 2 | 0.59 | 1.10 | 2 |
| 10 | 23 | 10 | 277 | 237.9 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 291 | 209.6 | 209.4 | 0.19 | 1 | 2 | 0.09 | 0.85 | 2 |
| 10 | 23 | 10 | 292 | 277.2 | 276.5 | 0.75 | 1 | 2 | 0.27 | 1.11 | 2 |
| 10 | 23 | 10 | 330 | 400.4 | 399.4 | 0.96 | 1 | 8 | 0.24 | 1.11 | 2 |
| 10 | 23 | 10 | 277 | 226.6 | 225.9 | 0.74 | 2 | 2 | 0.33 | 1.06 | 2 |
| 10 | 23 | 10 | 341 | 447.0 | 441.4 | 5.65 | 2 | 8 | 1.26 | 1.11 | 5 |
| 10 | 23 | 10 | 312 | 374.9 | n.d. | n.d. | | n.d. | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 329 | 395.0 | 394.4 | 0.61 | 1 | 8 | 0.15 | 1.11 | 3 |
| 10 | 23 | 10 | 300 | 258.0 | n.d. | n.d. | | n.d. | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 304 | 317.4 | 316.9 | 0.52 | 1 | 2 | 0.16 | 1.13 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 23 | 10 | 282 | 242.4 | 241.8 | 0.58 | 1 | 2 | 0.24 | 1.08 | 2 |
| 10 | 23 | 10 | 277 | 220.2 | 219.8 | 0.37 | 1 | 2 | 0.17 | 1.03 | 2 |
| 10 | 23 | 10 | 285 | 265.8 | 264.3 | 1.49 | 2 | 2 | 0.56 | 1.14 | 2 |
| 10 | 23 | 10 | 289 | 256.1 | 254.4 | 1.71 | 2 | 2 | 0.67 | 1.05 | 2 |
| 10 | 23 | 10 | 342 | 465.9 | 460.8 | 5.08 | 2 | 8 | 1.09 | 1.15 | 6 |
| 10 | 23 | 10 | 287 | 233.7 | 233.3 | 0.41 | 1 | 2 | 0.18 | 0.99 | 2 |
| 10 | 23 | 10 | 268 | 196.6 | 195.9 | 0.66 | 1 | 2 | 0.34 | 1.02 | 1 |
| 10 | 23 | 10 | 281 | 220.2 | 219.0 | 1.22 | 2 | 2 | 0.55 | 0.99 | 2 |
| 10 | 23 | 10 | 292 | 246.8 | 246.2 | 0.60 | 1 | 2 | 0.24 | 0.99 | 2 |
| 10 | 23 | 10 | 286 | 254.5 | 253.9 | 0.58 | 1 | 2 | 0.23 | 1.09 | 2 |
| 10 | 23 | 10 | 283 | 241.7 | 240.9 | 0.84 | 1 | 2 | 0.35 | 1.06 | 2 |
| 10 | 23 | 10 | 296 | 295.0 | 292.7 | 2.29 | 2 | 2 | 0.78 | 1.13 | 2 |
| 10 | 23 | 10 | 284 | 226.6 | 224.8 | 1.78 | 2 | 2 | 0.79 | 0.98 | 2 |
| 10 | 23 | 10 | 327 | 364.5 | 363.8 | 0.67 | 1 | 8 | 0.18 | 1.04 | 2 |
| 10 | 23 | 10 | 325 | 380.0 | 375.8 | 4.20 | 2 | 8 | 1.11 | 1.09 | 3 |
| 10 | 23 | 10 | 295 | 313.5 | 313.3 | 0.17 | 1 | 2 | 0.05 | 1.22 | 2 |
| 10 | 23 | 10 | 287 | 268.0 | 267.6 | 0.41 | 1 | 2 | 0.15 | 1.13 | 2 |
| 10 | 23 | 10 | 284 | 235.0 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 23 | 10 | 302 | 301.6 | 300.8 | 0.79 | 1 | 2 | 0.26 | 1.09 | 2 |
| 10 | 23 | 10 | 292 | 263.9 | 261.6 | 2.26 | 2 | 2 | 0.86 | 1.05 | 2 |
| 10 | 23 | 10 | 319 | 377.8 | 375.1 | 2.69 | 2 | 8 | 0.71 | 1.16 | 3 |
| 10 | 23 | 10 | 285 | 279.7 | 278.6 | 1.14 | 1 | 2 | 0.41 | 1.20 | 2 |
| 10 | 23 | 10 | 311 | 355.3 | 354.5 | 0.79 | 1 | 8 | 0.22 | 1.18 | 2 |
| 10 | 23 | 10 | 337 | 416.5 | 415.9 | 0.56 | 1 | 8 | 0.13 | 1.09 | 3 |
| 10 | 23 | 10 | 312 | 329.7 | 327.3 | 2.40 | 2 | 2 | 0.73 | 1.08 | 2 |
| 10 | 23 | 10 | 316 | 347.5 | 347.1 | 0.42 | 1 | 2 | 0.12 | 1.10 | 2 |
| 10 | 23 | 10 | 286 | 255.1 | 253.0 | 2.11 | 2 | 2 | 0.83 | 1.08 | 2 |
| 10 | 23 | 10 | 340 | 446.9 | 445.8 | 1.11 | 1 | 7 | 0.25 | 1.13 | 3 |
| 10 | 23 | 10 | 327 | 412.1 | n.d. | n.d. | 1 | 8 | n.d. | n.d. | 3 |
| 10 | 23 | 10 | 307 | 341.7 | 338.3 | 3.40 | 2 | 8 | 1.00 | 1.17 | 2 |
| 10 | 23 | 10 | 295 | 291.9 | 291.5 | 0.36 | 1 | 2 | 0.12 | 1.14 | 2 |
| 10 | 23 | 10 | 297 | 275.0 | 274.4 | 0.62 | 1 | 2 | 0.23 | 1.05 | 2 |
| 10 | 23 | 10 | 286 | 250.9 | 250.5 | 0.42 | 1 | 2 | 0.17 | 1.07 | 2 |
| 10 | 23 | 10 | 368 | 620.4 | 613.9 | 6.52 | 2 | 8 | 1.05 | 1.23 | 6 |
| 10 | 23 | 10 | 300 | 284.2 | 283.9 | 0.35 | 1 | 2 | 0.12 | 1.05 | 3 |
| 10 | 23 | 10 | 296 | 288.8 | 286.9 | 1.89 | 2 | 2 | 0.65 | 1.11 | 2 |
| 10 | 23 | 10 | 285 | 241.5 | 239.9 | 1.57 | 2 | 2 | 0.65 | 1.04 | 2 |
| 10 | 23 | 10 | 328 | 418.7 | 414.6 | 4.06 | 2 | 8 | 0.97 | 1.18 | 3 |
| 10 | 23 | 10 | 292 | 289.1 | 288.8 | 0.28 | 1 | 2 | 0.10 | 1.16 | 2 |
| 10 | 23 | 10 | 295 | 291.5 | 291.1 | 0.42 | 1 | 2 | 0.14 | 1.13 | 2 |
| 10 | 23 | 10 | 309 | 330.4 | 326.8 | 3.56 | 2 | 8 | 1.08 | 1.11 | 3 |
| 10 | 23 | 10 | 295 | 323.3 | 322.9 | 0.42 | 1 | 8 | 0.13 | 1.26 | 2 |
| 10 | 23 | 10 | 291 | 267.7 | 267.4 | 0.30 | 1 | 2 | 0.11 | 1.09 | 2 |
| 10 | 23 | 10 | 281 | 226.5 | 224.9 | 1.60 | 2 | 2 | 0.71 | 1.01 | 2 |
| 10 | 23 | 4/0 | 312 | 330.6 | 329.7 | 0.86 | 1 | 8 | 0.26 | 1.09 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 23 | 4/0 | 341 | 455.9 | 451.1 | 4.85 | 2 | 8 | 1.06 | 1.14 | 3 |
| 10 | 23 | 4/0 | 314 | 373.2 | 370.2 | 2.98 | 2 | 8 | 0.80 | 1.20 | 2 |
| 10 | 23 | 4/0 | 297 | 310.6 | 310.1 | 0.48 | 1 | 2 | 0.15 | 1.18 | 2 |
| 10 | 23 | 4/0 | 311 | 341.3 | 338.9 | 2.42 | 2 | 2 | 0.71 | 1.13 | 2 |
| 10 | 23 | 4/0 | 360 | 541.4 | 539.9 | 1.49 | 1 | 8 | 0.28 | 1.16 | n.d. |
| 10 | 23 | 4/0 | 289 | 270.7 | 270.2 | 0.51 | 1 | 2 | 0.19 | 1.12 | 2 |
| 10 | 23 | 4/0 | 363 | 536.1 | 529.3 | 6.78 | 2 | 8 | 1.26 | 1.11 | 6 |
| 10 | 23 | 4/0 | 288 | 263.7 | 263.1 | 0.59 | 1 | 2 | 0.22 | 1.10 | 2 |
| 10 | 23 | 4/0 | 286 | 267.8 | 265.6 | 2.19 | 2 | 2 | 0.82 | 1.14 | 2 |
| 10 | 23 | 4/0 | 306 | 333.9 | 329.8 | 4.10 | 2 | 8 | 1.23 | 1.15 | 3 |
| 10 | 23 | 4/0 | 305 | 323.1 | 320.4 | 2.67 | 2 | 8 | 0.83 | 1.13 | 2 |
| 10 | 23 | 4/0 | 310 | 336.8 | 334.6 | 2.17 | 2 | 8 | 0.64 | 1.12 | 2 |
| 10 | 23 | 4/0 | 342 | 475.2 | 469.5 | 5.75 | 2 | 8 | 1.21 | 1.17 | 4 |
| 10 | 23 | 4/0 | 322 | 379.0 | 375.1 | 3.94 | 2 | 8 | 1.04 | 1.12 | 3 |
| 10 | 23 | 4/0 | 308 | 358.2 | 354.3 | 3.89 | 2 | 8 | 1.09 | 1.21 | 3 |
| 10 | 23 | 4/0 | 296 | 282.7 | 282.4 | 0.35 | 1 | 2 | 0.12 | 1.09 | 2 |
| 10 | 23 | 4/0 | 297 | 331.0 | 330.6 | 0.39 | 1 | 2 | 0.12 | 1.26 | 2 |
| 10 | 23 | 4/0 | 292 | 254.0 | 252.2 | 1.83 | 2 | 2 | 0.72 | 1.01 | 2 |
| 10 | 23 | 4/0 | 306 | 340.0 | 339.4 | 0.58 | 1 | 8 | 0.17 | 1.18 | 3 |
| 10 | 23 | 4/0 | 306 | 329.9 | 327.1 | 2.76 | 2 | 8 | 0.84 | 1.14 | 3 |
| 10 | 23 | 4/0 | 330 | 409.2 | 408.2 | 0.98 | 1 | 8 | 0.24 | 1.14 | n.d. |
| 10 | 23 | 4/0 | 293 | 301.1 | 298.7 | 2.38 | 2 | 2 | 0.79 | 1.19 | 2 |
| 10 | 23 | 4/0 | 281 | 244.4 | 242.6 | 1.83 | 2 | 2 | 0.75 | 1.09 | 2 |
| 10 | 23 | 4/0 | 321 | 410.2 | 405.6 | 4.57 | 2 | 8 | 1.11 | 1.23 | 4 |
| 10 | 23 | 4/0 | 289 | 286.7 | 286.3 | 0.40 | 1 | 2 | 0.14 | 1.19 | 2 |
| 10 | 23 | 4/0 | 305 | 311.6 | 311.1 | 0.51 | 1 | 2 | 0.16 | 1.10 | 2 |
| 10 | 23 | 4/0 | 287 | 276.7 | 275.2 | 1.54 | 2 | 2 | 0.56 | 1.16 | 2 |
| 10 | 23 | 4/0 | 314 | 342.2 | 341.7 | 0.54 | 1 | 8 | 0.16 | 1.10 | 2 |
| 10 | 23 | 4/0 | 279 | 244.3 | 243.8 | 0.48 | 1 | 2 | 0.20 | 1.12 | 2 |
| 10 | 23 | 4/0 | 286 | 271.5 | 269.6 | 1.89 | 2 | 2 | 0.70 | 1.15 | 2 |
| 10 | 23 | 4/0 | 305 | 334.5 | 334.1 | 0.43 | 1 | 2 | 0.13 | 1.18 | 2 |
| 10 | 23 | 4/0 | 289 | 271.3 | 271.0 | 0.34 | 1 | 2 | 0.13 | 1.12 | 2 |
| 10 | 23 | 4/0 | 290 | 268.4 | 267.8 | 0.56 | 1 | 2 | 0.21 | 1.10 | 2 |
| 10 | 23 | 4/0 | 316 | 394.4 | 393.8 | 0.61 | 1 | 8 | 0.15 | 1.25 | 2 |
| 10 | 23 | 4/0 | 297 | 304.3 | 303.8 | 0.53 | 1 | 2 | 0.17 | 1.16 | 2 |
| 10 | 23 | 4/0 | 296 | 285.5 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 23 | 4/0 | 318 | 415.8 | 415.1 | 0.67 | 1 | 8 | 0.16 | 1.29 | 4 |
| 10 | 23 | 4/0 | 344 | 497.2 | 496.0 | 1.18 | 1 | 8 | 0.24 | 1.22 | 3 |
| 10 | 23 | 4/0 | 274 | 236.7 | 236.4 | 0.27 | 1 | 2 | 0.11 | 1.15 | 2 |
| 10 | 23 | 4/0 | 292 | 287.3 | 285.5 | 1.83 | 2 | 2 | 0.64 | 1.15 | 2 |
| 10 | 23 | 4/0 | 332 | 480.9 | 476.6 | 4.33 | 2 | 8 | 0.90 | 1.30 | 3 |
| 10 | 23 | 4/0 | 277 | 238.2 | 236.6 | 1.64 | 2 | 2 | 0.69 | 1.11 | 2 |
| 10 | 23 | 4/0 | 286 | 249.9 | 249.6 | 0.34 | 1 | 2 | 0.14 | 1.07 | 2 |
| 10 | 23 | 4/0 | 292 | 255.1 | 253.2 | 1.90 | 2 | 2 | 0.74 | 1.02 | 2 |
| 10 | 23 | 4/0 | 289 | 237.3 | 235.2 | 2.06 | 2 | 2 | 0.87 | 0.97 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 23 | 4/0 | 290 | 242.9 | 242.5 | 0.43 | 1 | 2 | 0.18 | 0.99 | 2 |
| 10 | 23 | 4/0 | 302 | 291.4 | 289.4 | 2.04 | 2 | 2 | 0.70 | 1.05 | 3 |
| 10 | 23 | 4/0 | 300 | 301.9 | 299.6 | 2.30 | 2 | 2 | 0.76 | 1.11 | 2 |
| 10 | 23 | 4/0 | 312 | 359.0 | 358.4 | 0.62 | 1 | 8 | 0.17 | 1.18 | 2 |
| 10 | 23 | 4/0 | 342 | 485.6 | 480.4 | 5.22 | 2 | 8 | 1.07 | 1.20 | 4 |
| 10 | 23 | 4/0 | 290 | 282.8 | 282.3 | 0.51 | 1 | 8 | 0.18 | 1.16 | 2 |
| 10 | 23 | 4/0 | 276 | 202.3 | 201.6 | 0.69 | 1 | 2 | 0.34 | 0.96 | 2 |
| 10 | 23 | 4/0 | 283 | 256.5 | 255.9 | 0.56 | 1 | 2 | 0.22 | 1.13 | 2 |
| 10 | 23 | 4/0 | 296 | 282.2 | 281.9 | 0.32 | 1 | 8 | 0.11 | 1.09 | 2 |
| 10 | 23 | 4/0 | 291 | 289.2 | 288.4 | 0.76 | 1 | 2 | 0.26 | 1.17 | 2 |
| 10 | 23 | 4/0 | 288 | 278.3 | 276.2 | 2.08 | 2 | 2 | 0.75 | 1.16 | 2 |
| 10 | 23 | 4/0 | 302 | 313.2 | 311.7 | 1.51 | 2 | 2 | 0.48 | 1.13 | 2 |
| 10 | 23 | 4/0 | 294 | 293.0 | 292.8 | 0.23 | 1 | 2 | 0.08 | 1.15 | 2 |
| 10 | 23 | 4/0 | 308 | 305.5 | 303.8 | 1.75 | 2 | 2 | 0.57 | 1.04 | 2 |
| 10 | 23 | 4/0 | 325 | 382.9 | 378.8 | 4.15 | 2 | 8 | 1.08 | 1.10 | 3 |
| 10 | 23 | 4/0 | 282 | 255.7 | 255.3 | 0.40 | 1 | 2 | 0.16 | 1.14 | 2 |
| 10 | 23 | 4/0 | 265 | 193.5 | 193.2 | 0.27 | 1 | 2 | 0.14 | 1.04 | 1 |
| 10 | 23 | 4/0 | 294 | 332.2 | 328.8 | 3.44 | 2 | 2 | 1.04 | 1.29 | 3 |
| 10 | 23 | 4/0 | 302 | 308.8 | 308.1 | 0.70 | 1 | 2 | 0.23 | 1.12 | 2 |
| 10 | 23 | 4/0 | 345 | 450.7 | 445.5 | 5.24 | 2 | 8 | 1.16 | 1.08 | 5 |
| 10 | 23 | 4/0 | 300 | 296.9 | 294.8 | 2.14 | 2 | 2 | 0.72 | 1.09 | 2 |
| 10 | 23 | 4/0 | 308 | 354.4 | 353.8 | 0.61 | 1 | 8 | 0.17 | 1.21 | 3 |
| 10 | 23 | 4/0 | 272 | 215.0 | 214.8 | 0.23 | 1 | 2 | 0.11 | 1.07 | 2 |
| 10 | 23 | 4/0 | 288 | 266.0 | 264.2 | 1.84 | 2 | 2 | 0.69 | 1.11 | 3 |
| 10 | 23 | 4/0 | 286 | 258.4 | 258.0 | 0.37 | 1 | 2 | 0.14 | 1.10 | 2 |
| 10 | 23 | 4/0 | 305 | 327.9 | 327.0 | 0.89 | 1 | 2 | 0.27 | 1.15 | 2 |
| 10 | 23 | 4/0 | 314 | 343.8 | 343.4 | 0.44 | 1 | 2 | 0.13 | 1.11 | 2 |
| 10 | 23 | 4/0 | 291 | 252.8 | 250.7 | 2.13 | 2 | 2 | 0.84 | 1.02 | 2 |
| 10 | 23 | 4/0 | 302 | 307.0 | 306.1 | 0.93 | 1 | 8 | 0.30 | 1.11 | 3 |
| 10 | 23 | 4/0 | 340 | 463.2 | 457.4 | 5.77 | 2 | 8 | 1.25 | 1.16 | 3 |
| 10 | 23 | 4/0 | 346 | 486.9 | 485.9 | 1.04 | 2 | 8 | 0.21 | 1.17 | 4 |
| 10 | 23 | 4/0 | 286 | 267.7 | 265.6 | 2.06 | 2 | 2 | 0.77 | 1.14 | 2 |
| 10 | 23 | 4/0 | 293 | 278.3 | 277.9 | 0.41 | 1 | 2 | 0.15 | 1.10 | 2 |
| 10 | 23 | 4/0 | 300 | 306.4 | 303.8 | 2.56 | 2 | 2 | 0.84 | 1.13 | 2 |
| 10 | 23 | 4/0 | 297 | 261.5 | 259.7 | 1.78 | 2 | 2 | 0.68 | 0.99 | 2 |
| 10 | 23 | 4/0 | 333 | 448.8 | 448.0 | 0.82 | 1 | 8 | 0.18 | 1.21 | 3 |
| 10 | 23 | 4/0 | 260 | 194.6 | 193.8 | 0.84 | 2 | 2 | 0.43 | 1.10 | 1 |
| 10 | 23 | 4/0 | 304 | 292.2 | 290.0 | 2.18 | 2 | 2 | 0.75 | 1.03 | 2 |
| 10 | 23 | 4/0 | 292 | 259.7 | 259.4 | 0.28 | 1 | 2 | 0.11 | 1.04 | 2 |
| 10 | 23 | 4/0 | 300 | 279.1 | 277.3 | 1.76 | 2 | 2 | 0.63 | 1.03 | 2 |
| 10 | 23 | 4/0 | 290 | 288.5 | 288.1 | 0.39 | 1 | 8 | 0.14 | 1.18 | 2 |
| 10 | 23 | 4/0 | 316 | 266.6 | 263.8 | 2.81 | 2 | 8 | 1.05 | 0.84 | 2 |
| 10 | 23 | 4/0 | 305 | 301.8 | 301.5 | 0.26 | 1 | 2 | 0.09 | 1.06 | 2 |
| 10 | 23 | 4/0 | 355 | 545.4 | 538.6 | 6.78 | 2 | 8 | 1.24 | 1.20 | 6 |
| 10 | 23 | 4/0 | 301 | 369.0 | 368.6 | 0.40 | 1 | 2 | 0.11 | 1.35 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 23 | 4/0 | 301 | 292.1 | 291.9 | 0.22 | 1 | 2 | 0.08 | 1.07 | 2 |
| 10 | 23 | 4/0 | 300 | 318.5 | 317.9 | 0.62 | 1 | 2 | 0.19 | 1.18 | 2 |
| 10 | 23 | 4/0 | 301 | 294.8 | 294.4 | 0.41 | 1 | 2 | 0.14 | 1.08 | 2 |
| 10 | 23 | 4/0 | 369 | 556.9 | 555.6 | 1.29 | 1 | 8 | 0.23 | 1.11 | 6 |
| 10 | 23 | 4/0 | 279 | 234.7 | 233.0 | 1.72 | 2 | 2 | 0.73 | 1.07 | 2 |
| 10 | 23 | 4/0 | 314 | 343.3 | 340.6 | 2.74 | 2 | 2 | 0.80 | 1.10 | 2 |
| 10 | 23 | 4/0 | 350 | 471.6 | 466.9 | 4.75 | 2 | 8 | 1.01 | 1.09 | 4 |
| 10 | 23 | 4/0 | 314 | 367.5 | 363.9 | 3.57 | 2 | 8 | 0.97 | 1.18 | 3 |
| 10 | 23 | 4/0 | 283 | 247.8 | 247.4 | 0.39 | 1 | 2 | 0.16 | 1.09 | 2 |
| 10 | 24 | 2/0 | 293 | 287.2 | 286.7 | 0.51 | 1 | 2 | 0.18 | 1.14 | 2 |
| 10 | 24 | 2/0 | 344 | 493.7 | 488.8 | 4.88 | 2 | 8 | 0.99 | 1.20 | 3 |
| 10 | 24 | 2/0 | 287 | 241.1 | 240.7 | 0.41 | 1 | 2 | 0.17 | 1.02 | 2 |
| 10 | 24 | 2/0 | 280 | 256.9 | 256.4 | 0.51 | 1 | 2 | 0.20 | 1.17 | 2 |
| 10 | 24 | 2/0 | 291 | 256.0 | 255.7 | 0.34 | 1 | 2 | 0.13 | 1.04 | 2 |
| 10 | 24 | 2/0 | 287 | 269.1 | 268.7 | 0.40 | 1 | 2 | 0.15 | 1.14 | 2 |
| 10 | 24 | 2/0 | 300 | 282.9 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 2/0 | 305 | 317.7 | 317.3 | 0.40 | 1 | 8 | 0.13 | 1.12 | n.d. |
| 10 | 24 | 2/0 | 302 | 331.1 | 329.4 | 1.73 | 2 | 2 | 0.52 | 1.20 | 2 |
| 10 | 24 | 2/0 | 285 | 224.4 | 224.0 | 0.38 | 1 | 2 | 0.17 | 0.97 | 2 |
| 10 | 24 | 2/0 | 281 | 251.0 | 249.5 | 1.55 | 2 | 2 | 0.62 | 1.12 | 2 |
| 10 | 24 | 2/0 | 361 | 584.2 | 578.2 | 5.96 | 2 | 8 | 1.02 | 1.23 | 6 |
| 10 | 24 | 2/0 | 296 | 265.3 | 263.3 | 2.00 | 2 | 2 | 0.75 | 1.02 | 2 |
| 10 | 24 | 2/0 | 298 | 291.8 | 291.3 | 0.55 | 1 | 2 | 0.19 | 1.10 | 2 |
| 10 | 24 | 2/0 | 289 | 257.4 | 256.8 | 0.61 | 1 | 2 | 0.24 | 1.06 | 2 |
| 10 | 24 | 2/0 | 285 | 249.2 | 248.3 | 0.87 | 1 | 2 | 0.35 | 1.07 | 2 |
| 10 | 24 | 2/0 | 291 | 254.2 | 254.0 | 0.25 | 1 | 2 | 0.10 | 1.03 | 2 |
| 10 | 24 | 2/0 | 300 | 283.3 | 281.7 | 1.57 | 2 | 2 | 0.55 | 1.04 | 2 |
| 10 | 24 | 2/0 | 274 | 232.1 | 230.9 | 1.21 | 2 | 2 | 0.52 | 1.12 | 2 |
| 10 | 24 | 2/0 | 281 | 239.8 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 24 | 2/0 | 292 | 260.2 | 258.1 | 2.12 | 2 | 2 | 0.81 | 1.04 | 2 |
| 10 | 24 | 2/0 | 274 | 210.5 | 208.9 | 1.60 | 2 | 2 | 0.76 | 1.02 | 2 |
| 10 | 24 | 2/0 | 296 | 267.2 | 266.8 | 0.45 | 1 | 2 | 0.17 | 1.03 | 2 |
| 10 | 24 | 2/0 | 300 | 278.3 | 276.2 | 2.15 | 2 | 2 | 0.77 | 1.02 | 2 |
| 10 | 24 | 2/0 | 302 | 291.1 | 288.8 | 2.31 | 2 | 2 | 0.79 | 1.05 | 2 |
| 10 | 24 | 2/0 | 280 | 237.2 | 236.6 | 0.63 | 1 | 2 | 0.27 | 1.08 | 2 |
| 10 | 24 | 2/0 | 292 | 262.6 | 260.8 | 1.79 | 2 | 2 | 0.68 | 1.05 | n.d. |
| 10 | 24 | 2/0 | 306 | 335.1 | 332.5 | 2.58 | 2 | 8 | 0.77 | 1.16 | 2 |
| 10 | 24 | 2/0 | 307 | 339.5 | 339.0 | 0.50 | 1 | 8 | 0.15 | 1.17 | 2 |
| 10 | 24 | 2/0 | 301 | 290.7 | 290.4 | 0.31 | 1 | 2 | 0.11 | 1.06 | 2 |
| 10 | 24 | 2/0 | 307 | 281.2 | 280.7 | 0.52 | 1 | 8 | 0.18 | 0.97 | 2 |
| 10 | 24 | 2/0 | 289 | 265.5 | 263.9 | 1.62 | 2 | 2 | 0.61 | 1.09 | 2 |
| 10 | 24 | 2/0 | 274 | 217.9 | 217.2 | 0.74 | 2 | 2 | 0.34 | 1.06 | 1 |
| 10 | 24 | 2/0 | 316 | 325.9 | 325.2 | 0.70 | 1 | 8 | 0.21 | 1.03 | n.d. |
| 10 | 24 | 2/0 | 280 | 244.2 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 2/0 | 290 | 257.2 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) Total | Somatic | Gonad | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 24 | 2/0 | 298 | 270.6 | 268.6 | 2.03 | 2 | 2 | 0.75 | 1.01 | 2 |
| 10 | 24 | 2/0 | 302 | 315.4 | 313.4 | 1.99 | 2 | 2 | 0.63 | 1.14 | 2 |
| 10 | 24 | 2/0 | 291 | 268.3 | 268.0 | 0.32 | 1 | 2 | 0.12 | 1.09 | 2 |
| 10 | 24 | 2/0 | 255 | 157.9 | 157.3 | 0.61 | 1 | 2 | 0.39 | 0.95 | 1 |
| 10 | 24 | 2/0 | 275 | 230.7 | 229.8 | 0.91 | 2 | 2 | 0.39 | 1.10 | 1 |
| 10 | 24 | 2/0 | 290 | 247.0 | 245.0 | 1.97 | 2 | 2 | 0.80 | 1.00 | 2 |
| 10 | 24 | 2/0 | 305 | 316.2 | 314.3 | 1.91 | 2 | 2 | 0.60 | 1.11 | 2 |
| 10 | 24 | 2/0 | 287 | 280.3 | 279.8 | 0.50 | 1 | 2 | 0.18 | 1.18 | 2 |
| 10 | 24 | 2/0 | 293 | 293.9 | 293.6 | 0.35 | 1 | 2 | 0.12 | 1.17 | 2 |
| 10 | 24 | 2/0 | 303 | 289.3 | 287.3 | 2.01 | 2 | 2 | 0.69 | 1.03 | 2 |
| 10 | 24 | 2/0 | 280 | 257.2 | 255.2 | 2.01 | 2 | 2 | 0.78 | 1.16 | 2 |
| 10 | 24 | 2/0 | 306 | 324.2 | 323.7 | 0.47 | 1 | 2 | 0.14 | 1.13 | 2 |
| 10 | 24 | 2/0 | 292 | 276.2 | 274.1 | 2.14 | 2 | 2 | 0.77 | 1.10 | 2 |
| 10 | 24 | 2/0 | 288 | 257.2 | 256.8 | 0.44 | 1 | 2 | 0.17 | 1.07 | 2 |
| 10 | 24 | 2/0 | 306 | 307.9 | 307.3 | 0.56 | 1 | 2 | 0.18 | 1.07 | 2 |
| 10 | 24 | 2/0 | 316 | 407.5 | 403.9 | 3.57 | 2 | 8 | 0.88 | 1.28 | 4 |
| 10 | 24 | 2/0 | 302 | 316.5 | 316.0 | 0.50 | 1 | 2 | 0.16 | 1.15 | 2 |
| 10 | 24 | 2/0 | 292 | 288.5 | 286.4 | 2.10 | 2 | 2 | 0.73 | 1.15 | 2 |
| 10 | 24 | 2/0 | 296 | 294.5 | 293.7 | 0.83 | 1 | 2 | 0.28 | 1.13 | 2 |
| 10 | 24 | 2/0 | 293 | 278.9 | 278.4 | 0.52 | 1 | 2 | 0.19 | 1.11 | 2 |
| 10 | 24 | 2/0 | 287 | 233.5 | 231.6 | 1.90 | 2 | 2 | 0.81 | 0.98 | 2 |
| 10 | 24 | 2/0 | 285 | 255.6 | 255.1 | 0.49 | 1 | 2 | 0.19 | 1.10 | 2 |
| 10 | 24 | 2/0 | 294 | 281.9 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 2/0 | 322 | 450.9 | 447.2 | 3.71 | 2 | 8 | 0.82 | 1.34 | 4 |
| 10 | 24 | 2/0 | 291 | 265.6 | 265.3 | 0.32 | 1 | 2 | 0.12 | 1.08 | 2 |
| 10 | 24 | 2/0 | 325 | 401.1 | 400.4 | 0.68 | 1 | 8 | 0.17 | 1.17 | 2 |
| 10 | 24 | 2/0 | 290 | 274.9 | 273.6 | 1.32 | 2 | 2 | 0.48 | 1.12 | 2 |
| 10 | 24 | 2/0 | 290 | 259.9 | 259.5 | 0.43 | 1 | 2 | 0.17 | 1.06 | 2 |
| 10 | 24 | 2/0 | 281 | 217.2 | 216.5 | 0.66 | 1 | 2 | 0.30 | 0.98 | 2 |
| 10 | 24 | 2/0 | 303 | 319.0 | 316.8 | 2.24 | 2 | 2 | 0.70 | 1.14 | 2 |
| 10 | 24 | 2/0 | 287 | 329.8 | 329.4 | 0.36 | 1 | 2 | 0.11 | 1.39 | 2 |
| 10 | 24 | 2/0 | 290 | 268.0 | 265.8 | 2.23 | 2 | 2 | 0.83 | 1.09 | 2 |
| 10 | 24 | 2/0 | 296 | 290.4 | 288.3 | 2.08 | 2 | 2 | 0.72 | 1.11 | 2 |
| 10 | 24 | 2/0 | 289 | 254.6 | 252.6 | 2.03 | 2 | 2 | 0.80 | 1.05 | 2 |
| 10 | 24 | 2/0 | 305 | 321.0 | 320.6 | 0.36 | 1 | 2 | 0.11 | 1.13 | 2 |
| 10 | 24 | 2/0 | 285 | 269.8 | 269.4 | 0.44 | 1 | 2 | 0.16 | 1.16 | 2 |
| 10 | 24 | 2/0 | 318 | 358.6 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 2/0 | 288 | 257.7 | 255.9 | 1.79 | 2 | 2 | 0.69 | 1.07 | 2 |
| 10 | 24 | 2/0 | 307 | 363.3 | 361.4 | 1.92 | 2 | 2 | 0.53 | 1.25 | n.d. |
| 10 | 24 | 2/0 | 295 | 269.9 | 269.4 | 0.49 | 1 | 2 | 0.18 | 1.05 | 2 |
| 10 | 24 | 2/0 | 285 | 271.1 | 270.6 | 0.47 | 1 | 2 | 0.17 | 1.17 | 2 |
| 10 | 24 | 2/0 | 314 | 367.9 | 365.7 | 2.17 | 2 | 8 | 0.59 | 1.18 | 2 |
| 10 | 24 | 2/0 | 294 | 288.7 | 286.6 | 2.06 | 2 | 2 | 0.71 | 1.13 | 2 |
| 10 | 24 | 2/0 | 304 | 294.7 | 292.8 | 1.95 | 2 | 2 | 0.66 | 1.04 | 2 |
| 10 | 24 | 2/0 | 290 | 268.3 | 267.9 | 0.37 | 1 | 2 | 0.14 | 1.10 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 24 | 2/0 | 301 | 305.7 | 305.3 | 0.44 | 1 | 2 | 0.14 | 1.12 | 2 |
| 10 | 24 | 2/0 | 299 | 278.8 | 276.6 | 2.17 | 2 | 2 | 0.78 | 1.03 | 2 |
| 10 | 24 | 2/0 | 277 | 234.8 | 233.0 | 1.78 | 2 | 2 | 0.76 | 1.10 | 2 |
| 10 | 24 | 2/0 | 307 | 332.8 | 332.3 | 0.52 | 1 | 2 | 0.16 | 1.15 | 2 |
| 10 | 24 | 2/0 | 290 | 273.4 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 2/0 | 299 | 291.8 | 289.8 | 2.03 | 2 | 2 | 0.70 | 1.08 | 2 |
| 10 | 24 | 2/0 | 330 | 425.2 | 421.3 | 3.90 | 2 | 8 | 0.92 | 1.17 | 3 |
| 10 | 24 | 2/0 | 317 | 372.2 | 371.5 | 0.73 | 1 | 8 | 0.20 | 1.17 | 3 |
| 10 | 24 | 2/0 | 286 | 259.1 | 258.8 | 0.35 | 1 | 2 | 0.14 | 1.11 | 2 |
| 10 | 24 | 2/0 | 311 | 344.8 | 344.3 | 0.50 | 1 | 2 | 0.15 | 1.14 | 2 |
| 10 | 24 | 2/0 | 278 | 228.6 | 228.1 | 0.47 | 1 | 2 | 0.21 | 1.06 | 2 |
| 10 | 24 | 2/0 | 291 | 262.6 | 260.7 | 1.92 | 2 | 2 | 0.73 | 1.06 | 2 |
| 10 | 24 | 2/0 | 296 | 302.0 | 300.2 | 1.81 | 2 | 2 | 0.60 | 1.16 | 2 |
| 10 | 24 | 2/0 | 293 | 282.0 | 280.2 | 1.77 | 2 | 2 | 0.63 | 1.11 | 2 |
| 10 | 24 | 2/0 | 285 | 242.7 | 241.2 | 1.46 | 2 | 2 | 0.60 | 1.04 | 2 |
| 10 | 24 | 2/0 | 303 | 296.2 | 295.5 | 0.75 | 1 | 2 | 0.25 | 1.06 | 2 |
| 10 | 24 | 2/0 | 257 | 185.5 | 185.3 | 0.21 | 1 | 2 | 0.11 | 1.09 | 1 |
| 10 | 24 | 2/0 | 267 | 166.3 | 166.1 | 0.23 | 1 | 2 | 0.14 | 0.87 | 1 |
| 10 | 24 | 2/0 | 295 | 287.3 | 287.1 | 0.22 | 1 | 2 | 0.08 | 1.12 | 2 |
| 10 | 24 | 10 | 281 | 210.6 | 208.9 | 1.71 | 2 | 2 | 0.81 | 0.94 | 2 |
| 10 | 24 | 10 | 316 | 337.7 | 337.3 | 0.38 | 1 | 8 | 0.11 | 1.07 | 2 |
| 10 | 24 | 10 | 291 | 239.1 | 238.6 | 0.54 | 1 | 2 | 0.23 | 0.97 | n.d. |
| 10 | 24 | 10 | 301 | 224.1 | 223.3 | 0.81 | 1 | 2 | 0.36 | 0.82 | 2 |
| 10 | 24 | 10 | 282 | 209.8 | 209.3 | 0.48 | 1 | 2 | 0.23 | 0.93 | 2 |
| 10 | 24 | 10 | 287 | 257.6 | 256.2 | 1.42 | 2 | 2 | 0.55 | 1.08 | 2 |
| 10 | 24 | 10 | 284 | 240.8 | 239.6 | 1.23 | 2 | 2 | 0.51 | 1.05 | 2 |
| 10 | 24 | 10 | 288 | 250.3 | 250.1 | 0.21 | 1 | 2 | 0.08 | 1.05 | 2 |
| 10 | 24 | 10 | 297 | 270.3 | 268.3 | 2.01 | 2 | 2 | 0.74 | 1.02 | 2 |
| 10 | 24 | 10 | 297 | 287.7 | 285.7 | 2.03 | 2 | 2 | 0.71 | 1.09 | 2 |
| 10 | 24 | 10 | 283 | 228.5 | 227.5 | 0.96 | 1 | 2 | 0.42 | 1.00 | 2 |
| 10 | 24 | 10 | 302 | 350.0 | 349.6 | 0.42 | 1 | 2 | 0.12 | 1.27 | 2 |
| 10 | 24 | 10 | 272 | 203.2 | 202.6 | 0.63 | 1 | 2 | 0.31 | 1.01 | n.d. |
| 10 | 24 | 10 | 302 | 291.6 | 289.2 | 2.36 | 2 | 2 | 0.81 | 1.05 | 2 |
| 10 | 24 | 10 | 334 | 373.0 | 369.8 | 3.16 | 2 | 8 | 0.85 | 0.99 | 3 |
| 10 | 24 | 10 | 284 | 259.3 | 259.0 | 0.34 | 1 | 2 | 0.13 | 1.13 | 2 |
| 10 | 24 | 10 | 290 | 262.7 | 262.4 | 0.34 | 1 | 2 | 0.13 | 1.08 | 2 |
| 10 | 24 | 10 | 295 | 288.7 | 286.8 | 1.94 | 2 | 2 | 0.67 | 1.12 | 2 |
| 10 | 24 | 10 | 286 | 264.0 | 262.0 | 2.01 | 2 | 2 | 0.76 | 1.12 | 2 |
| 10 | 24 | 10 | 332 | 318.9 | 316.5 | 2.40 | 2 | 8 | 0.75 | 0.86 | 2 |
| 10 | 24 | 10 | 357 | 517.1 | 516.0 | 1.15 | 1 | 8 | 0.22 | 1.13 | 6 |
| 10 | 24 | 10 | 284 | 229.6 | 229.3 | 0.28 | 1 | 2 | 0.12 | 1.00 | 2 |
| 10 | 24 | 10 | 286 | 241.6 | 239.8 | 1.81 | 2 | 2 | 0.75 | 1.03 | 2 |
| 10 | 24 | 10 | 295 | 293.8 | 292.7 | 1.11 | 2 | 2 | 0.38 | 1.14 | 2 |
| 10 | 24 | 10 | 297 | 297.7 | 297.0 | 0.72 | 1 | 2 | 0.24 | 1.13 | 2 |
| 10 | 24 | 10 | 279 | 225.4 | 225.1 | 0.34 | 1 | 2 | 0.15 | 1.04 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) Total | Somatic | Gonad | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 10 | 24 | 10 | 296 | 239.7 | 238.2 | 1.51 | 2 | 2 | 0.63 | 0.92 | 2 |
| 10 | 24 | 10 | 275 | 222.1 | 221.3 | 0.78 | 2 | 2 | 0.35 | 1.06 | 1 |
| 10 | 24 | 10 | 310 | 284.4 | 283.9 | 0.50 | 1 | 2 | 0.18 | 0.95 | 2 |
| 10 | 24 | 10 | 275 | 205.7 | 205.4 | 0.35 | 1 | 2 | 0.17 | 0.99 | 2 |
| 10 | 24 | 10 | 290 | 275.0 | 274.6 | 0.40 | 1 | 2 | 0.15 | 1.13 | 2 |
| 10 | 24 | 10 | 294 | 290.4 | 290.0 | 0.37 | 1 | 2 | 0.13 | 1.14 | 2 |
| 10 | 24 | 10 | 285 | 246.1 | 243.0 | 3.08 | 2 | 2 | 1.25 | 1.05 | 2 |
| 10 | 24 | 10 | 265 | 177.7 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 1 |
| 10 | 24 | 10 | 301 | 318.2 | 317.0 | 1.20 | 1 | 2 | 0.38 | 1.16 | 2 |
| 10 | 24 | 10 | 280 | 224.9 | 222.8 | 2.09 | 2 | 2 | 0.93 | 1.01 | 2 |
| 10 | 24 | 10 | 294 | 270.3 | 269.2 | 1.15 | 1 | 2 | 0.43 | 1.06 | 2 |
| 10 | 24 | 10 | 290 | 248.7 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 10 | 266 | 197.3 | 196.4 | 0.91 | 2 | 2 | 0.46 | 1.04 | 1 |
| 10 | 24 | 10 | 343 | 474.6 | 474.1 | 0.51 | 1 | 8 | 0.11 | 1.17 | 2 |
| 10 | 24 | 10 | 291 | 246.0 | 243.5 | 2.52 | 2 | 2 | 1.02 | 0.99 | 2 |
| 10 | 24 | 10 | 301 | 321.8 | 321.3 | 0.53 | 1 | 2 | 0.16 | 1.18 | 2 |
| 10 | 24 | 10 | 295 | 292.0 | 289.4 | 2.60 | 2 | 2 | 0.89 | 1.13 | 2 |
| 10 | 24 | 10 | 293 | 281.8 | 279.9 | 1.87 | 2 | 2 | 0.66 | 1.11 | 2 |
| 10 | 24 | 10 | 256 | 186.9 | 185.8 | 1.07 | 2 | 2 | 0.57 | 1.11 | 1 |
| 10 | 24 | 10 | 305 | 318.8 | 317.4 | 1.44 | 2 | 2 | 0.45 | 1.12 | 2 |
| 10 | 24 | 10 | 286 | 263.0 | 261.1 | 1.86 | 2 | 2 | 0.71 | 1.12 | 2 |
| 10 | 24 | 10 | 293 | 275.9 | 274.2 | 1.73 | 2 | 2 | 0.63 | 1.09 | 2 |
| 10 | 24 | 10 | 283 | 196.6 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 24 | 10 | 352 | 557.4 | 556.5 | 0.86 | 1 | 8 | 0.15 | 1.28 | 6 |
| 10 | 24 | 10 | 298 | 296.2 | 294.4 | 1.80 | 2 | 2 | 0.61 | 1.11 | 2 |
| 10 | 24 | 10 | 277 | 223.3 | 223.0 | 0.35 | 1 | 2 | 0.16 | 1.05 | 2 |
| 10 | 24 | 10 | 283 | 239.3 | 238.8 | 0.46 | 1 | 2 | 0.19 | 1.05 | 2 |
| 10 | 24 | 10 | 293 | 283.1 | 282.5 | 0.65 | 1 | 8 | 0.23 | 1.12 | 2 |
| 10 | 24 | 10 | 284 | 244.5 | 244.3 | 0.25 | 1 | 2 | 0.10 | 1.07 | 2 |
| 10 | 24 | 10 | 285 | 254.0 | 253.6 | 0.41 | 1 | 2 | 0.16 | 1.10 | 2 |
| 10 | 24 | 10 | 295 | 291.2 | 289.5 | 1.72 | 2 | 2 | 0.59 | 1.13 | 2 |
| 10 | 24 | 10 | 262 | 195.3 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 1 |
| 10 | 24 | 10 | 290 | 252.3 | 250.0 | 2.30 | 2 | 2 | 0.91 | 1.03 | 2 |
| 10 | 24 | 10 | 302 | 274.9 | 273.0 | 1.95 | 2 | 2 | 0.71 | 0.99 | 2 |
| 10 | 24 | 10 | 306 | 332.5 | 330.1 | 2.44 | 2 | 2 | 0.73 | 1.15 | 2 |
| 10 | 24 | 10 | 297 | 279.4 | 279.0 | 0.37 | 1 | 2 | 0.13 | 1.07 | 2 |
| 10 | 24 | 10 | 294 | 277.9 | 275.7 | 2.22 | 2 | 2 | 0.80 | 1.08 | 2 |
| 10 | 24 | 10 | 288 | 256.0 | 254.4 | 1.62 | 2 | 2 | 0.63 | 1.06 | 2 |
| 10 | 24 | 10 | 286 | 263.6 | 261.8 | 1.81 | 2 | 2 | 0.69 | 1.12 | 2 |
| 10 | 24 | 10 | 291 | 275.6 | 275.2 | 0.45 | 1 | 2 | 0.16 | 1.12 | 2 |
| 10 | 24 | 10 | 279 | 218.6 | 218.2 | 0.38 | 1 | 2 | 0.17 | 1.00 | 2 |
| 10 | 24 | 10 | 308 | 314.6 | 314.1 | 0.51 | 1 | 2 | 0.16 | 1.07 | 2 |
| 10 | 24 | 10 | 298 | 283.9 | 283.4 | 0.47 | 1 | 2 | 0.17 | 1.07 | 2 |
| 10 | 24 | 10 | 316 | 389.5 | 388.9 | 0.57 | 1 | 2 | 0.15 | 1.23 | 2 |
| 10 | 24 | 10 | 302 | 280.3 | 279.7 | 0.65 | 1 | 2 | 0.23 | 1.02 | 2 |

| MONTH | DAY | HOOK SIZE | LENGTH (mm) | WEIGHT (g) | | | SEX | MATURITY | GONADO-SOMATIC INDEX | CONDITION FACTOR | AGE (y) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Total | Somatic | Gonad | | | | | |
| 10 | 24 | 10 | 290 | 281.8 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 10 | 285 | 236.3 | 235.9 | 0.40 | 1 | 2 | 0.17 | 1.02 | 2 |
| 10 | 24 | 10 | 301 | 308.5 | 308.0 | 0.50 | 1 | 2 | 0.16 | 1.13 | 2 |
| 10 | 24 | 10 | 302 | 306.2 | 305.5 | 0.71 | 1 | 2 | 0.23 | 1.11 | 2 |
| 10 | 24 | 10 | 293 | 258.4 | 258.0 | 0.40 | 1 | 2 | 0.15 | 1.03 | 2 |
| 10 | 24 | 10 | 303 | 327.0 | 324.1 | 2.93 | 2 | 8 | 0.90 | 1.16 | 3 |
| 10 | 24 | 10 | 297 | 299.0 | 297.7 | 1.34 | 1 | 2 | 0.45 | 1.14 | 2 |
| 10 | 24 | 10 | 289 | 279.1 | n.d. | n.d. | 1 | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 10 | 302 | 296.1 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 24 | 10 | 282 | 248.8 | 248.4 | 0.41 | 1 | 2 | 0.16 | 1.11 | 2 |
| 10 | 24 | 10 | 272 | 224.0 | 223.7 | 0.33 | 1 | 2 | 0.15 | 1.11 | 2 |
| 10 | 24 | 10 | 273 | 222.7 | 222.6 | 0.12 | 1 | 1 | 0.05 | 1.09 | 1 |
| 10 | 24 | 10 | 318 | 375.7 | 372.1 | 3.58 | 2 | 8 | 0.95 | 1.16 | 3 |
| 10 | 24 | 10 | 282 | 248.9 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 10 | 294 | 238.5 | n.d. | n.d. | n.d. | n.d. | n.d. | n.d. | 2 |
| 10 | 24 | 10 | 312 | 347.7 | 345.6 | 2.10 | 2 | 8 | 0.60 | 1.14 | 2 |
| 10 | 24 | 10 | 306 | 317.4 | 316.8 | 0.60 | 1 | 8 | 0.19 | 1.11 | 2 |
| 10 | 24 | 10 | 304 | 368.4 | 367.8 | 0.63 | 1 | 8 | 0.17 | 1.31 | 3 |
| 10 | 24 | 10 | 300 | 320.9 | 320.3 | 0.58 | 1 | 8 | 0.18 | 1.19 | 2 |
| 10 | 24 | 10 | 293 | 264.1 | 263.7 | 0.37 | 1 | 2 | 0.14 | 1.05 | n.d. |
| 10 | 24 | 10 | 292 | 243.9 | n.d. | n.d. | 1 | 2 | n.d. | n.d. | 2 |
| 10 | 24 | 10 | 292 | 270.0 | 267.8 | 2.21 | 2 | 2 | 0.82 | 1.08 | 2 |
| 10 | 24 | 10 | 287 | 247.7 | 247.3 | 0.37 | 1 | 2 | 0.15 | 1.05 | 2 |
| 10 | 24 | 10 | 285 | 257.3 | 256.9 | 0.39 | 1 | 2 | 0.15 | 1.11 | 2 |
| 10 | 24 | 10 | 305 | 330.3 | 329.6 | 0.68 | 1 | 8 | 0.21 | 1.16 | 2 |
| 10 | 24 | 10 | 305 | 314.7 | 313.2 | 1.53 | 2 | 2 | 0.49 | 1.10 | 2 |
| 10 | 24 | 10 | 287 | 248.2 | 246.6 | 1.60 | 2 | 2 | 0.64 | 1.04 | 2 |
| 10 | 24 | 10 | 287 | 229.1 | 228.2 | 0.87 | 2 | 2 | 0.38 | 0.97 | 2 |